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FIGURE 5267

CTCTTGCGGAGACGCGCGCTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCGGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTCTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGGTGTAAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCATTCTTACAAGAACCCGGGCTGGTCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCACTGGGATGATCATTCTGGGCGGGGGCGTGGTCAAGCACCACATTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCCACCAGACGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCC
TACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5268

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFRAVQQVNAMEKKLE
PLSQDEQHADLTQSRRLTSCITIFLGYTSNLISSGIRETIRYLVQHNMVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTSPKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQKMDAFMHEKNED

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FIGURE 5269

CTCTTGCGGAGACGCGCGCGTCGGGGTTTAAACGCGTTTCTGGGCCGCGTAAGCCCGGCCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGGTGCT
AAAGCACAGCTCGACGTTGCCGCCCGAAAGCACCCAGGTCGGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTCGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCGACCAGATGGTGATGGA
GCAGAACACAGAGGGGTAAAGTGGACGCCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTACAAGAACCCGGGCCTGGTCTGGACATCGTTGAGGCCCAGGAGTTTGATGGCTC
TGACTCAGGTGCCCCGACCAGACGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA
TGCTGACGCCCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG
CCCCTCCCTACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5270

CTCTTGCGGAGACGCGCGCGTCGGGGTTTAAACGCGTTTCTGGGCCCGCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCCTTCGGCACCAACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCGAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCATTCTTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGGTGCCCGACCAGACGAGGC
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT
GCTTGTGGCTGAAACCTTTGCCGAGAAGATGGATGCCTTCATGCATGAGAAGAAGAGGACTTGAGCGGCTGCGGT
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTTGGTCAGCTAC
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5271

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE
PLSQDEDQHADLTQSRRLTSCITIFLGYSNLISSGIRETIRYLVQHNMDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTTPSKMIARLGKEINNPESVYYWAQ
KNHIPVVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA
QKMDAFMHEKNED

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FIGURE 5272

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTGGCGACAGCTGCCGGCTGGCTGCTACCCGCCCCGCCAGCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCGGAGCGGGCCCCGCAGGGA
CCCTCCCCAGACCGCTGGGCGGCCCGGATGTGCACTAAAATGGAACAGCCCTTCTACCACGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGGCCAGAGGGCGGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCTCAACAGCAACGGCGTGATCAGCAGCAGCCTACACCCCGGGACAGTACTTTTACCCCCGCGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCACCGAGGAGCAGGAGGGCTTCGCGGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCC
GGCTGGGCCCCGGGGCGTCTACGCCGGCCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCTTCGGGAGGCGCCGGGGCTGCCGTGGGACCGGGAGCTCGTACCGGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCGCGGCTGTCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCCAGCTCAAACAGAAGGTGATGACCCACGTGAGCAACGGCTGTGAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCCTGGGACCTAGGGGCGCCGAAACCACACTGGACT
CCGGCCCCCTACCTTGCGCCCAGTCTTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTTGTATGT
TTTTTTCTGCTGGAAACAGACTCGATTTCATATTGAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGGCGGAGCTGGCCCCGCCGCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAAAGAAACACGCACCTTAGTCTCTAAAGAGTTTATTTTAAAGACG
TGTTGTGTTTGTGTGTTTGTCTTTTATTGAATCTATTTAAGTAAAAAAAATTGGTTCTTTATTAA

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FIGURE 5273

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGS
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTPPNVSLGATGGPPAGPGGVYAGPEPPPVTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLRNRLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVQLKQKVMTHVSNQCQLLLGVKGHAF

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FIGURE 5274

CGCGGCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCCA
CGCAGCTTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTTCAGCAACCGTGCAGAGGACTTCCGCAAGCTGGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGAAAGAGGGAGGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGTCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTAAATGATT
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCCCTCCAAACTCCACAGTATGGGACCCCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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FIGURE 5275

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYPLDFTFVCPTEIIAFSNRAEDFRKLGCEVLGV
SVDSQFTHLAWINTPRKEGGLGPLNIPLLDVTRRLSEYGVLTDEGIAYRGLFIIDGKGVLRQITVNDLPVGR
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKYFSKHN

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FIGURE 5276

AAAAGGCTTCGCGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC
CTTTGCCCACGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCA
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTGCGACTACAAAGGGAAGTACGTGGTCCTCTTTTCT
ACCCCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGC
TGGGCTGTGAAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGAAAG
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCTCAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTGCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCTGATGTCTTCAGGGGCCTCTTT
ATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATTGCTGTGGGACGCTCCG .

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FIGURE 5277

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGGCGGCTGAGGCGGCATGGATCTCAGCGAG
CTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCCCGGGTGTGCCGCAAGGAGCCTTGCGTC
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGAAAGGCTGTTT
GCGAAAATGGAGGACACGGACTTTGTGCGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG
CTTGGGCGGGTCAAATACAACCTGAACTCCCTGTCACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC
CAGGGCGTGAAACGTACCCAGGTATTCTGTGGACACCGTAGGGATGCCAGAGACATACCAGGCGCAGCTGCAGCAA
AGTTTTCCCGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATC
TGTGCCAAGGTGGCCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCTGTGGAGAACTGCAGGACTTGGATACTGAT
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTCCGGCTTC
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCAGACCATCCTGGAGAAAGAGCGGGAAGATGTTATATGGGAG
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCGT
CCCCGTTCTTCCCACCGATATTTCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC
GCTCTACCTGCTTCCCCAACCAGACATTAAAATTGTTTAAGGAG

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FIGURE 5278

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGFVLGPMVYAICYCPLPRLADLEALKVADSKTLLESE
RERLFAKMEDTDFVGWALDVLSPNLISTSMGLGRVKYNLNSLSHDTATGLIQYALDQGVNVTQVFVDIVGMPETYQ
AQLQQSFPGIEVTVKAKADALYPVVSAAISCAKVARQAVKKWQFVEKLQDLDDYGS GYPNDPKTKAWLKEHVE
PVFGFPQFVRFSWRTAQTIIEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLERGLESATSL

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FIGURE 5279

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAC TGTGCTCCGGCGGGCTGGAGGCGTCTGATGGCGGCCCTG
GACAGCGCCGAGTTGGCGGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTTCATCGAGGCTGAAC TTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCC GTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCCA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGTGGACAAGAGTGC GGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGA CTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGCGGGACCGGCCCTTCAAGCCCTACAAC TTTCTTGCCCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGGACAGATCTTCTGGAGATGGGGTTCACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAAC TTTGACGCCCTCTTCCAGCCCCAGCAGACCCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCCGAAA
AACCTACTGCGAACCCACACCACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCAGCATGGAGGTGTT CAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGGTCTTCCGTCCAGAGATGTGCTGCCCATG
GGGCTTCCCGAGAACGTGTGCGTCA TTGCCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTAGACATGGGCCACTCTAGGACAGGT CATCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCCTCTTTCCACCTGTCCCAGGACCAGAATCCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 5280

MADGQVAELLLRRLEASDGGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVVRGGQAEK
LGEKERSELKRKLLAEVTLKTYWVSKGSFSTSIKQETELSPEMISSGSWRDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNF DALFQPQQHPARDQHD TFFLRDPAEALQLPMDYVQVRKTH
SQGGYGSQGYKYNWKLDEARKNLLRTH TTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLRFFTKLGITQLRFKPAYNPYTEPSMEVF SYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVS V IAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 5281

GTCCGTA CTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCTTGCCGCCCCCTCGGCCCGCCATGC
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTCGCCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTCGAGCCTTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTCACGGTGAAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCCACCAAGAAGGTTCAITGTCATCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGGAAGACGATTGGGACT
TCCTGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCGAGCATATCCCTGACCCTGATGCTAAGAAGCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCAAGTGAATCAGAACCCCTGAGTACAAGGGTGAGTGGAGC
CCCGGCAGATCGACAACCCAGATTACAAGGGCAGTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCG
ATCCAGTATCTATGCCTATGATAACTTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACCTTCCTCATCACCACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGAGGAGGACAAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCGGCCAGGCCAAGGACGAGCTGTAGAGAGGCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGCAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAACTTTTATTTTT
TTCCAGGCTGGTTTCGATTGTTGGGTGGATTTTGGTTTTGTTCCCTCCTCCACTCTCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTTTAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTTGCTCTGTCCCTTCTCTCATCTCTTAGCTCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTATCTGCTCTCCTTCCTGGAGCCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCCTCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTCAACCCCTCCCTTTCTCCCTGCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAATT
TCTATTAAATTAAATTTTGTGTCTC

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FIGURE 5282

MLLSVPLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPSNSLDQTDHMGDSEYNIMFGPDICGPGTKKVHVIFNY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDIKGTWHPIDNPEYS
PDPSIYAYDNFGVLGLDLWQVKSGTIFDNFLITNDEAYAEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKK
RKEEEEAEDKEDDEDKDEDEDEEDKEDEDEEDVPGQAKDEL

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FIGURE 5283

CCGGAAGTGGTCGGCGCGCGGGCGGGCGCGCCTGGGCGCTAAGATGGCGGGCGCGTGAGTTGCATGTTGTGTGAG
GATCCCGGGGCGCGCGCTCGCTCGGGCCCCGCCATGCCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGAC
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTTCGTGA
TGCCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTA
TCGCATCGATGAGAAGAACTTTGTGGTCGTATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC
AGAGGCCTCACCCACAGCTGCCCCAGAGTCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCC
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTGTCAGG
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCTCCACGCTAGTGACGGGTCTGTAGTATGA
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTCGTGGCCGCCCTGAGAGCCAGCTACAA
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCTTGGGAGCCCCGAGCCGGAACACGGTTCTGTCCA
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCTGGAGTTCTGCGGGACCAGCC
CCAGTTCAGAACATGCGGCAGGTGATTGAGCAGAACCTGCGCTGCTGCCCCGCTGCTCCAGCAGCTGGGCCA
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACAGGAGCAGTTTCATCCAGATGCTGAACGAGCCCCCTGG
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCCGCAGATGAACTACAT
CCAGGTGACGCCGCAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCCAGAGAGCCTGGTCATCCA
GGCCTATTTGCGGTGTGAAAAAATGAGAACTTGGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCCTACCTTATTCCATGAAAGTTTATAAAAGAAAAAATATAT
ATATATTCATGTTTATTTAAGAAATGGAAAAAATCAAAATCTTAAAAAACAAGCAAACAGTCCAGCTTCC
TGTCTCTTAAAGTGGCCCCGTGTTCCCATCTCCCGGGCCAGACAGCTGTCCCCCGTCTCTCTCCAGCCCAGC
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCCCTTGGCCTCTGTCCAGCTCTCTGCAGCC
AGACGGAAAGCGGGCTGCTTGCTCTCCATCCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTCTAGGAT
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCAAATCTTTCCATCTAGGGCAAGTCCTGAA
AGGCCCAAGCCCCCTCCCACTGTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTGAAGTGAATAAAGTTTTAAAACT

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FIGURE 5284

MAVTITLKTQQOTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM
VTKTKAGQGTSAPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSGSVPSGSSGRE
EDAASTLVGTSEYETMLTEIMSMGYERERVVAALRASYNPNHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE
AAGENPLEFLRDQPQFQNMQRVQQNPALLPALLQQLGQENPQLLQQISRHQEQFIQMLNEPPGELADISDVEGE
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNFDDE

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FIGURE 5285

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCTGGCCCCGGGTTCCTGCTGGCTAC
CGGGCGCGGCGCCCCCGCGCCGCAGGCCGGGACCCCGGTGGCCAGACCCCGAGGACCTCCTGACCCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTGCGCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACCGCAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAAGTGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCCAGGCTGACAAG
GAGAGGAGGGCCCGACTGCAGGCTGAGGCCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTCCCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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FIGURE 5286

CTAATTCGGGAAACGTGCACCTTGACTAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGCGGGCGGAGGCCG
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCCGGGTGCTCTCTAGAGC
CCGGTTTTTTCAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAATCGCCTTTCCAGTGCCAAACGA
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA
TGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACAGCACCA
GAGGGTGTGCGAGAGGTTTGACGTCACTGATCTGGACCCCTATGGCAGCCCAGCCACCTTCTCGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAACCTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGTTTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGT
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGGTCTTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA
CACCTTGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA
CGCTGACTTCCGGGTCTCACTCTCCACGCCCTGTAAGAACGCTGTGAAGACGGATGCCCCTGCCCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCCAGCGTTCCG
CATTCTCAGTGTGGAGCCCAGGCTGCAGGCCAACTTCACCATCCGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAACTGGGGTCCCCGGCCTCGTGCCCGGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGCAGGCTGCTTCAGAACAAGCGGAAGGAGCCCGGGAAGATGTGGCCCA
GCGGGCTGCCCGGCTCAAGACATTTCTTGCAAGAGGTTTAAAGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCACAGCCCCCGACACCCAGGGTTTCTGTGATGTGCCCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTTGAACCAATAAAGAGATGTACGTACCTTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5287

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPREVQETTVTEGAAKIAFPSANEVFYN
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC
EEGLHVLEGLAASGLRSIRFALEVPGRLSVVANDASTRAVDLIRRVQLNDVAHLVQPSQADARMLMYQHQRVSE
RFDVIDLDPYGSPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD
LRANCYQRFVVPLLSISADFYVRVFEVRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVP SGRAKFSAA
CGPPVTPECEHCGQRHQLGGPMWAEP IHDLD FVGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ
LSSTIHCNTPSLLQLRSALLHADFRVSLSHACKNAVKTDPASALWDIMRCWEKECPVKRERLSETSPAFRILSV
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARPGGKADEAMEERRLLQNKREPPEDVAQRAAR
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTFPGPGAAAGPGID

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FIGURE 5288

ATGTCTCTCGAAGACCCCTTTTTGTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCCGGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGGGCGGTTCGGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAAGCCAACCCA
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTCTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACACCCAGTCCCGCATGGACGGGGTCCTCAGGAAGTTGGCCAAAGTATCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTTGA

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FIGURE 5289

MSLEDFFFVVRGEVQKAVNTARGLYQRWCELLQESAAVGREELDWTTNELRNGLSIEWDLEDLEETIGIVEANP
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSPATAVAFLEARNREILAGKPAAQKSPDLLDASAVSATSRYIE
EQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDFAQEMDHTQSRMDGVLRLAKVSHMTSD
RRQWCAIAVLVGVLVLLVLLIFSL

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FIGURE 5290

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGCACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTGCGCGTCGAGTCGCCATGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGA
AGATGTATCACTCCCGCATGCAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTGCTGGTCATGCGCA
GCGCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCGAGGTGTCGTTGCCGGCCGCCCTCCCT
CTGACCCTGCGCTGCACCCGCCCCGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCGACGGTGAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCCTGCTGTGCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAGAGGAGGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTGTCAGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCGG
CCCCCTCGACGGCGCCCGCCGCTGCGAGGCAAAGCCCGCTTGCCGCCCGGGCGGACAGCATGCTCAACGTGCTCG
TGCGGGCCGTGGTGGCCTTCTGAGGACCCCGAGCGGCGCTGCCGGAGCCAGAGCGCGCTCGAACCGTCGGCCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCTCCATCCTGGGGGAAGCGCCCGCGAAAACCGTGGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGCAGGGACGG
CACCGAGGAGTCTGAGCCGGGGCGCGGGCGCCTTCGCGAGAGACCTGCGCCACAGGTGCTGTCTTAGTGGACT
GGGACGTGAACCTTTGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTTGTTTTGTTTGT
TTGTTTTTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTTCAAGGTTT
TTCAAGAGTTGGTTTTTGCTTTCCAACCTCGGAGAATTCCAGGCACTCCCTTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTCATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCTGTGCGCTTGCGTGGGTGTGGGGCCTGGGA
GGAGGTCTGGGGCGTGCACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTCACCCCGCGTGCTG
CTGGTTAATGTCCCGCGTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTCACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCAGTAGGTTCCAGGTTCCAGCGTGCCCCCTCCCTCAGACACAGGACACAATCAG
CCGAGAAGTTCCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGTGTCAGTGGAAAGGCATAAGGCTGAGCT
GAGACCAGTTGCTGGTGAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTTCTGAGGGTCTGCT
TTGTTTACCTTTGCTGCGGTGGATTCTTTTTAACTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA
ATAAAAACCATTTGAGT

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FIGURE 5291

MEVQKEAQRIMTILSVWKMYHSRMQRGGLRLHRS LQLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPRLHPPR
EAESTAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE
GASSEVADRLQPPPAQEGAFPNLARVLQRRFSGLLNCS PAAPPTAPPACEAKPACRPADSMLNVLVRVAVAF

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FIGURE 5292

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCAATGACCCTGGAGGCGATC
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC
TCGGTGCACCAAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCGGCCATAGCCCTGGTGGGCTGT
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC
AAGCTGAGCTTCCTCGTCACCGCCCGGCCACCGCTGTCAACATGGCCCGCGCCCGCGACCTGGCTGATGTT
GCAGCCCGGAGGCCGAACGGGAGGGCGCTACGGAAGAGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC
ATGCTGGAGAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACACTGGTGCTCTGGCCACCGCTGGCTATGGTACAGCC
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATAACCAGGCAGAGGGAAGTCCACTGCGAGGGCCCC
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC
ACCCTGTCTGTTTGCCCTCCCGGGGCCCTTCTCCTGGTGGGTGGGGCCCCGCAGGTGTGATTGCTCACTGCA
CAGCCTGGGCGCCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT
TGAGCTGGTCTATGAGCAGATCCC

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FIGURE 5293

MTLEAIRYSRGS LQILDQ LLLPKQSR YEAVGSVHQ AWEAIRAMKV RGAPAIALVGCLSLA VELQAGAGGPGLAAL
VAFVRDKLSFLVTARPTAVN MARAARDLADVAAREAE REGATEEEAVRERVICCTEDMLEKD LRDNRSIGDLGARH
LLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGARLTAFELVYEQIPATL
ITDSMVAAAMAHRGVS AVVVGADRVVANGDTANKVGT YQLAIVAKHHGIPFYVAAPSSSCDLRLETGKEIIIEER
PGQELTDVNGVRIAAPGIGVWNPAFDVTPHDLITGGIITELGVFAPEELRTALTTTISR DGTLDGPQM

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FIGURE 5294

GAATTAAAAAAGCCTTATTTATTATCATTTTCCCCACCGTTGGCATGGCAACACAGGCGTATACTGA
GCTACAGGCAGCCCCGCCACCATCCCAGCGGCCACAGGCCCCGCCACAAGCCCAGCCCCAGCGCCACCGCCACC
ACCCCCAGCGGCACCCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTACCGAGCT
GCAGAGCCCCAGCCCCAGGCACAGCCACCGGGTGGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC
ACCTTCGCAGCCAACCGGTGCACCCACCCCTTCGCCCTGCACCCAGCAGTACATCGTGGTCACTGTCTCTGAAGG
TGCCATGCGGGCCAGCGAGACAGTGTGCGAGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGCGTTCTACTCA
GGTGGTTTACGAGGTGCAGGGCACCAGCAGCGGCTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT
GTCGCCCCCTCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCCACGCAGCGTCTGGTGGTGCAGAGCGC
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCCAGAGCA
GTCGCCGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCGGGGCCCCACGGGCACAGTGCCACAGCAGCTGCA
GGTCCACGGCGTCCAGCAGAGTGTCCCGTCAACCAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA
ACCCGGCCCCGGTGCAGCGCTGACCGTGCAGGGCCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA
GCAGGTGCCCCGTCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG
TGCCATCCGTTCCAGCACCTACTCTATCCCGAGACGCCGTGTACACGCAGACGGCAAGCACCAGCTACTACGA
GGCCGCAGGCACGGCCACCCAGGTGAGCACCCTCCAGGCGGTGGCCAGCAGTGGCTCCATGCCCAT
GTACGTGTCCGGCAGCCAGGTGTCGCCAGCTCCACAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG
TGGCAGTGGTGGTGGCGGCGGCGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCGGAGGCGGCGGCGAG
CGGAGCAGGCACCTACGTGATCCAAGGCGGCTACATGTGGGCAGTGCCAGCCAGTCTTACTCTCACACCACCCG
TGCCCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAATATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCGTCAACGCCGCCTCCTTCGGCAAGCT
CATCCGCTCCGTCTTATGGGCTGCGAACCCGCCGTCTGGGCACCCAGGGGCAACTCCAAGTACCACTACTATGG
CCTGCGCATCAAGGCCAGCTCACCCCTGCTGCGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGGCCAGCC
CTTCTCGCAGAAGCAGAGGCTCAAGCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA
GCCGAGCACGGGGCTGTGCGACATCAGCGCCAGGTGCAGCAGTACCAGCAATTTTGGATGCCTCTCGGAGCCT
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTCCGGCCCCGGGGACATCAAAGCCTT
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTGACGTCATGGTGAACCTGCAGTTCACCTGGTGGAGAC
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCCAGTGAGGCGCCACCGCTGGCTGTACATGACGAGGC
CGAGAAGCGACTGCCCAAAGCCATCCTGGTGTCTCTCCAAGTTCGAGCCCGTGTCTCAATGGACCAAGCACTG
TGACAACGTGCTGTACAGGGCCTGGTGGAAATCCTCATTCCCCGACGTGCTGCGGCCCATCCCCAGTGCCTTGAC
CCAAGCGATCCGGAACCTTTGCCAAGAGCCTGGAGAGCTGGCTCACCCACGCCATGGTCAACATCCCCGAGGAGAT
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGGCGCTACACGTGCTCAACCACCTGGC
GCAGGCGGCGCGCTGTGTGTCAGAACACCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGGTGGACTT
CGCCAACGTGCAGGAGCAGGCTCGTGGGTGTGCCGTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT
CAAGGTGACGCTGCAGCAGCAGAACTCGCTGGAGCAGTGGGCGGCTGGCTGGACGGCGTGGTGGAGCAGGTGCT
CAAGCCCTACAGGGCAGCGCGGCTTCCCCAAGGCCGCCAAGCTCTTCTCTCAAGTGGTCTCTACAGCTC
CATGGTGTATCCGGGACCTGACCTGCGCAGCGCCGCCAGCTTCGGTTCCTTCCACCTCATCCGGCTGCTCTACGA
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCCAGGCCAAGGGCGAGACCCCCATCGCCGTATGGGCGA
GTTCCGCCAATCTGGCCACCTCCCTGAACCCCTGGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAG
CGAGGACGAGCTGCCGAGGACATCTACTGGCGGCTGGCGGCGAGTCAACCGCGCTGGGCCCCGAGACCCCTGGA
GCCGCCGGCCAAGCTGGCGCGGACTGACGCGCGGCGCTCTTCGTGCAGGCGCTGCCCTCCAGCTAAGCCCTTGG
CCTCCCCGCCCCACCCGCCCCCGCCACCCCTCCACGCCAGGGTCCC

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FIGURE 5295

CGCGTCCGCCGATTCTCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGC
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCAGC
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGAGACCCAGCACGTGTCTCCTATGCGCC
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC
AGCTGGAGGCCTGTGTGCGCTCTATC

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FIGURE 5296

MATNFLAHEKIWFDFKFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPGSDHSELVVRIASLEVENQSLRGVVQ
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVS PMRQVESPAKKPASPAEDDEDDIDLFGSDNEEDKEAAQL
REERLRQYAEKAKK PALVAKSSILLDVKPWDD ETDMAQLEACVRS IELDGLVWGTSKLMPVGYGIRKLQIQCVVE
DDKVGTYLLEEEITKFEEHVQSVDIAAFNKI

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FIGURE 5297

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG
GACCTCCAAGCTGATGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGT
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCGTGCGTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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FIGURE 5298

CAGTGXGCTCCGGGCGCGCGGCCGAGCCAGCACCCGCGCGCCGAGCTCCGGGACCGGCCCCGGCCGCCGCCG
CCGCGATGGGCAACGCCGCCGCCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCGCTCAGAACACAGCCCACTTGGATCAGTTTGAACGAATCAAGA
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAAACACAAGGAGACCGGGAACCACTATGCCATGAAGA
TCCTCGACAAACAGAAGGTGGTGAAACTGAAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG
TCAACTTCCGTTCCCTCGTCAAACCTCGAGTTCTCCTTCAAGGACAACCTCAAACCTTATACATGGTCATGGAGTACG
TGCCCCGGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTTCAGTGAGCCCCATGCCCGTTTCTACGCGG
CCCAGATCGTCCTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAATCTGC
TCATTGACCAGCAGGGCTACATTCAGGTGACAGACTTCGGTTTCGCCAAGCGCGTGAAGGGCCGCACTTGGACCT
TGTGCGGCACCCCTGAGTACCTGGCCCCCTGAGATTATCCTGAGCAAAGGCTACAACAAGGCCGTGGACTGGTGGG
CCCTGGGGGTTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCCATCCAGATCTATG
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACCTTCAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC
TGCAGGTAGATCTCACCAAGCGCTTTGGGAACCTCAAGAAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG
CCACAACCTGACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTTCATACCAAAGTTTAAAGGCCCTGGGG
ATACGAGTAACCTTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTT
CTGAGTTTTAGGGGCATGCCTGTGCCCCATGGGTTTTCTTTTTCTTTTTCTTTTTTTGGTCGGGGGGGTGG
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCCCTGCACTCAATTTACCCCCACCCACCTCCAGGGT
TAGGGGGAGCAGGAAGCCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCCCTCACCTCCT
GCCCCCTCTCCCACTTTTCCCTTCCCTCTTTCCCCACAGCCCCCAGCCCCCTCAGCCCTCCCAGCCCACCTTCTGCC
TGTTTTAAACGAGTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGTATCCAGGGACAGGGTATGGAAAGAGG
GGCTCACGCTTAACCTCCAGCCCCACCCACACCCCATCCCAACCAACAGGCCCACTTGCTAAGGGCAAAT
GAACGAAGCGCCAACCTTCCCTTCGGAGTAATCCTGCCTGGGAAGGAGAGATTTTAGTGACATGTTCAGTGGGT
TGCTTGCTAGAATTTTTTTAAAAAACAACAATTTAAATCTTATTTAAGTTCACCAAGTGCCCTCCCTCCCTCCT
TCCTCTACTCCCAACCCCTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTGAAA
GGGAGGCGCTGGGGTTTGAACCTCCCCGCTGTAATCTCCCTGGGCCCCCTCCCCGGGGAATCCTCTCTGCCAAT
CCTGCGAGGGTCTAGGCCCCCTTAGGAAGCCTCCGCTCTCTTTTTCCCCAACAGACCTGTCTTACCCTTGGGCT
TTGAAAGCCAGACAAAGCAGCTGCCCTCTCCCTGCCAAAGAGGAGTCATCCCCAAAAAGACAGAGGGGGAGCC
CCAAGCCCAAGTCTTTCTCCAGCAGCGTTCCCCCAACTCCTTAATTTTATCTCCGCTAGATTTTAACGTC
CAGCCTTCCCTCAGCTGAGTGGGAGGGCATCCCTGCAAAAGGGGAACAGAAGAGGCCAAGTCCCCCAAGCCACG
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGGAGGGGCTGCCTGTTTTACTCACCACCAAGCTTCCGCTCCCCAT
CCTGGGCGCCCCCTCCTCCAGCTTAGCTGTCTAGCTGTCCATCACCTCTCCCCACTTCTCATTGTGCTTTTTTC
TCTCGTAATAGAAAAGTGGGGAGCCGCTGGGGAGCCACCCATTTCATCCCCGTATTTCCCCCTCTCATAACTTCT
CCCCATCCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGGCGATTCAACCTGTGTGCTG
CGAAGGACGAGACTTCCTCTTGAAACAGTGTGCTGTGTAAACATATTTGAAAACATATTACCAATAAAGTTTGT

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FIGURE 5299

MGNAAAACGGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLSLDLIYRDLKPENLLIDQQGYIQVTDGFAKRVKGRWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDYEEEEIRVSINEKCGKEFSEF

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FIGURE 5300

AGATTTGAAGGCGGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGGACCTGGTCAG
CCCTACCCCACTGACCCCAACCGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCTGCCCCCTGCTGCGGCGCG
GCGAGGCGAGGCGATGGCCAAGGTGTCGGTGCTGAACGTGGCGGTCTCTGGAGAACCCGAGCCCTTTCCACAGCCC
CTTCCGGTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGAAGATCATTATGTTGG
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT
GTTTGTCTTTCAGGCCGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT
CATCACTGCACCTACCATGGACAGGAGTTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCTGA
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGGCCTCGAACCCCGGGT
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCAGCACGCCGGGAGGGGCAACCAGGCCTCCCA
GCGAGTCTGTCAGGGCCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAACCTCAGCCCT
AGGAAAGAACAGGCCTTGGGTCTCCCTAGTCTGCGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCACAGACCTCCCTGGCCCCACCTAGAGGCTTTCTTGG
TCAGTGCCTGTCAAGGCTCCAGTCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA
GACCCACTCCAGCTTCTGCTGTGTCACAGGCGGGAATGTAGTTAGTAGGTAGACTTAGATCCCATTCTGTCTCTG
CTCCCAGGAAGATTCTTAGGTCCTCTTCAATCCAGCAGCCCTCCAGAGGTGTGATCAGCAGGATGCTGAGGAA
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCCTGTTATCTCCTAAATGGATCTGGCTTTTCTGAGGCTG
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGGTCAGGGACCCTCTGCCT
CTGGCAGCCTTAACCTGTCTCTGCTAGGACCAGGGTGATTTCAAGCCAGGGAAGCAACTGGGACCCTGAAAAC
GTCCCTCCCCAGCCGCTCCCCCTCTCTGTGCCCTGGTCCCCTTGCCGCCATGTGGATGCTGTGTGATTGCTGT
TTGTATATTATCAAAATGTTTTATATTAATAATGTTTGGTCTGAAAATT

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FIGURE 5301

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSVLVGPVPAGRHMVFVQ
ADAPNPSLIPETDAVGVTVVLIITCTYHGQEFIRVGYYVNNEYLNPELRENPPMKPDFSQLQRNILASNPRVTRFH
INWDNNMDRLEAIETQDPSLGCGPLNCTPIKGLGLPGCIPGLLPENSMDCI

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FIGURE 5302

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC
TGGCTTCCGGGACTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCTTCTGA
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCCTGTGCCAGGCCAAGTCCGGGATGGGCAA
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCTGGTCATGTG
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCAGCGTCAAGGT
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTTGAAGAAGAACTGTCCCCATGTCGTGGT
GGGGACCCCGGGCCGATCCTGGCGCTCGTGGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTTCCGCCTGACACCACA
CGAGAAGCAGTGTCATGATGTTGAGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTCATGCAGGA
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA
AGACAGTGAGAAGAACCACAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAACCAGGTGATAATCTTCGTCAA
GTCAGTGCAGCGCTGCATGGCCCTGGCCCGAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG
CATGGCCAGGAGGAGCGCCTGTACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA
TCTGTTTGGCCGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC
CTACCTGCACCGGGTGGCCCGGGCGGGTCGCTTTGGCACCAGGCGCTAGCCATCACTTTTGTGTCTGACGAGAA
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT
CTCCACATACATCGAGCAGAGCCGGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCGCCCGCATGCAGCTT
CACCTCCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTTATTATG

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FIGURE 5303

ACGCGCGCTCCTCTGGCCGCCCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGCCCCCG
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGAAATCCGCAAGGAGCTGAAGCTGAAGGAGG
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCGCAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCCACGTGGTGTCTCCCGACCCGGCGG
CCACCCACGATGGCCCCCAGTCCCTGGTGGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGGCGG
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG
GCAGCACCAGGACCGGAAGCTGCTGCTGACAGCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA
TCCGCATGCAACTCCGCGGGGCGCTGCAGGCCGGCCAGCTGGAGAACCAGGCAGCCCCGATGACACCCAAGGGA
GTCTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGGAGCACGCGTGGCCG
AGGGTGCCAAGAACGTACTGCGCCTGCTCAGCGCTGCCAAGGCCCGGACCGCAAGGCAGTCAGCGAGGGCCAGG
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTGCTGCGGCTCCTCCGCTGCCTTACAGACCCGCTGG
CCGGGCCCCCTTCCCGCCACGCACTACAGACCCCTGTGCAAGCCCCGCGCCGCTCACAGGGACCCCTGGAGGTACGAG
TGGTGGGCTGCAGAGACCTCCCAGAGACCATCCCGTGAACCCCTACCCCTCAATGGGGGGACCTGGGACCCAG
ACAGCCGCCCCCTTCTGAGCCGCCAGCCCCGGGGCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA
GCCTCAAAGCAGAAGCCGAGAACACCAGTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA
CGTCTTGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAGGGCACGGGAAGTGG
AGTTGGCTGTGTTCTGGCGGGACCAGCGGGGCTGTGTGCCCTCAAATTCTGAAGTTGGAGGATTTCTTGGACA
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTCACTTCCGCAACCCCTG
TCATTGAGAGGATTCCTCGGCTCCGACGGCAGAAGAAATTTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG
CTAGGCAGATGAACATCGATGTGCGCCAGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCACGGGTGACATATCGGTGGAGAAGCTGAACC
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCGGCCCTGTGCAGCCCTC
TGAGGAAGTCACCTCTGACCCTCGAAGATTTCAAGTTCTTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC
TCCTCTCCGAATTCGGGCCAGTGGGGAGCTGTTCCGCATCAAGGCTCTGAAGAAAGGGGACATTGTGGCCCCGAG
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAGTGCGGGACACCCCTTCTTGGTGA
ACCTCTTCGGCTGTTTCCAGACACCGGAGCAGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTATTCCGCTGCGTGGTGTGGGCCTACAGT
TTCTTACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG
AGTTCTTGGCCCCCTGAGGTGCTGACGGACACGTCGTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG
ACGAGGTTTCGCTACCCCCGCTTCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTACGACTCTGGGCTGGG
AAGCCCTGTTGGCCCCGGCGCTGCCACCGCCCTTGTGCCCCACGCTGTCCGGCCGCACCGACGTAGCAACTTCG
ACGAGGAGTTACCGGGGAGGCCCCACACTGAGCCCGCCCCGCGACGCGCGGCCCCCTCACAGCCGCGGAGCAGG
CAGCCTTCTTGGACTTCGACTTCGTGGCCGGGGGCTGCTAGCCCCCTCCCCTGCCCCCTGCCCCCTGCCCCG
AGAGCTCTTAGTTTTTAAAAAGGCCTTTGGGATTTGCCGG

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FIGURE 5304

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDLGRSLGPVEL
LLRGSSRRDLHLHQQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELKVKQGAENMIQ
TYSNGSTKDRKLLLTAAQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSDDLGAVELRIEELRHHFRVE
HAVAEGAKNVLRLLSAAKAPDRKAVSEAEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF
STRLAGPFFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTPDSRPPFLSRPARGLYSRGSL
SGRSSLKAEAEENTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRGKALKFLKLE
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQOGKAFQRRARQMNIDVATWVRLRLRLIPN
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGSDSSPQKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGA
LCSPLRKSPLTLEDFKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH
PFLVNLFGCFQTPEHVCVMEYSAGGDLMLHIHSDVFSEPRAFYFYSACVVLGLQFLHEHKIVYRDLKLDNLLD
EGYVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPPFGDDEEEVFD
SIVNDEVRYPRFLSAEAGIMRRLRRNPERRLGSSERDAEDVKKQPFERTLGWEALLARRLPPPFVPTLSGRTD
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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FIGURE 5305

CACGGGGAGGCGGAGGCAGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGAGCAGATCTTCTGGTGACCCAC
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGGGAAAAAGGCGCCCCCTCTAGTGGAAAATGAGGAGGCTGAG
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTGCGGGGGCCCCCAAATGGGC
TTGCCCCCCCCCTCCCCAGCCCTGCGGCCCCGCTCGTGTTCACACCCAGCTGGCCCATGGCAGTCCCCTGGC
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCCGCCTGCCAACTGCCGAG
GTGATGTTCTGCACCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC
TTATCTTTCGCCCACGTGAAGGGGCAGCGCAAGGAGGTGGAGGTGTTCAAGTCGGAGGATGCACTCGGGCTCACC
ATCAGCGACAACGGGGCTGGCTACGCCCTTCATCAAGCGCATCAAGGAGGGCAGCGTGATCGACCACATCCACCTC
ATCAGCGTGGGCGACATGATCGAGGCCATTAACGGGCAGAGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCCG
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC
AGCCAGCGTTTCAGCGGGTGGCCGCCCTGGCTCTGGCCCACTGGGCACTGGCCGAGGGACCCTGCGGCTCCGA
TCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCCTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCTTCCCTGACGAGTTCGTCTTTGACGTC
TGGGGCGCCATTGGGGACGCCAAGGTCGGCCGCTACTAGGACTGCCCCCGGACCCTGCGATGATGACCCGGGCGC
AACCTGGTGGGGGCCCCCAGCAGGGACACTGACGTCAGGACCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCCGCTCCAATCGGTACCATCCCCCTCCCTGGTTCCC
AGTCTGGCCGGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA
GGGATCAGCCAAATTGGGCGGCCACCCCGCCTCCACCATTTCACCATCAGCTGCCAAACTGGTCCCTCTGTC
TCCCTGGGGCCTTGGGTTCGTTTGGGGGTGATGACCTTCCTAGTTTCCTGACGCAGGGAATACAGGGGAGAGGG
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA
CCTCCGCATTTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT
CCCTGGCCCAGAGCAGGAGGGAGGGAGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAACATA
AAGAATCTATCTGCTGTT

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FIGURE 5306

MPLGLGRRKKAPPLVENEEAEFGRGGLGVGEPGPLGGGSGGPQMGLPPPPALRPRLVFHTQLAHGSPTGRIEG
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS
AGGRPGSGPQLGTGRGTLRLRSRGPATVEDLPSAFEKAIEKVDDLLESYMGIRDTELAATMVELGDKRNPDEL
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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FIGURE 5307

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACTAAGACCCATCC
GCAGTGGTACCCCGCCGCCAGTCCCTCCGCCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTTCTGCA
GAAGCTGCCCGTGGGCACCACGGCCACACTGTACTTCCGGGACCTGGGGGCCAGATCAGCTGGGTGACGGTCTT
CCTAACAGAGTACGCGGGGCCCTTTTCATCTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC
CTACTACTGGGGCTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACTCTCCCTACCTACGGAGC
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG
GGACCTGCGGCCCCGCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCTTCACGTGGCTCTTCCT
GCTGGTGTCTGCCCCAACTACACCTACGAGGTGGGGTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC
AGTGGCCCTGTTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAA
GGAGTTCCGGGACTACCCGCCCTGCGCATGCCCATCATCCCTTCCTGCTCTGAGCGCTACCCCTGCTGAGGC
TCAGCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC
CTGCCCCAGTC

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FIGURE 5308

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACCTCATGGAGACCCCGCGGCCGC
CGCCCCCGCTGGGAGCTTATTCCTCTCTTCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCCTTGCTGGGCGC
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA
CGTGGCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTCACGCTGGTTCGGTGGGCACATTTCCCGCTGCT
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACAGCCATGAGGTACAGGCCGCTTTTGCTGCTGATGC
TATGGCCCCGCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTCACCAACACGGTGACTGC
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG
GGGTGCGCTCCAGGCTGTTGATCAGCTGTCCCTTTCCGGCCACTCTGTAAGTTTTGTGTGCTGTGCGGAGGGT
GCGGGACATTGTGCCACCCCTGAGGGCCGCGATGGCTGCCGCCAGTCGGGCACCCAGGTCCGGTGTGTTGTGGA
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGGCAGCCAAGCCACCCAGGGCCT
CGTGGGCCGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGCAGGAGCCTGGGAGCCTCAGCC
CGAGGGACCGTGCCCTGGACATCCCCAGGCTTCCCCGCAGCAGGTTTCAGCGCTGTGTGGAGATCCTGAGCCG
GGCCAAGAGGCCCTCTGATGGTGTGGGGAGTCAGGCCCTGCTCACCCCAACGCTGCGGACAAGCTTCGGGCTGC
CGTGGAGACCTTGGGTGTTCCCTGCTTCCTTGGAGGGATGGCACGGGGGCTGTTAGGCCGCAACCACCCCTCCA
CATCCGGGAGAACCGCAGTGCGGCCCTGAAGAAGGCGGACGTCATTGTCTAGCAGGAAGTGTGTGTGACTTCCG
CCTATCCTATGGCCGTGTCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCTTCGTGCTGAAGTTAGTGGA
GGGCCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAGGAGCAGAC
CTTTCGGGAGAAGGCAGCGATGCCGTGTGCCCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC
GCTACCTGACAACTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCCATCTGGTACAGCCCCG
CGGCCCCCTGCGCTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGCAGGATTTGCACTTGGGGCCAA
GCTGTGCCGGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGGACGGAGCTTTGGCTACAGCCTCATCGAATTTGA
TACATTGCTCAGACACAAGATCCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATCACAAGGCAGCCATGGGTCT
GGGGGCCCCGGGGCTTGCTGCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCCAGCAGCA
GTGCCGAGACGGCCACCCGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT
ATAGGGCCTTGTTGGGTGAGGACGCTTGGCTGCCTTCCTCCCCCTGGACTGTGTCCAGCTGGTTGGAGTCTCATC
ATTGCTTGCCCTGGGCCTATCCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAA
TCTCAGAGAGGCTCTCTTGTGAGCTCTTGACCCTCCTCTTACGGACCCAACTGTGCCGTTTGTCCCCTCTCTT
ATGGAGACTGAATAAACCACTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5309

METPAAAAPAGSLFPSFLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVAAVLRAHGVREIFTLVG
GHISPLLFACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAVTAGPGLTNTVTAVKNAQMAQSPILLGGAA
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVFTLRAAMAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP
AKPPKGLVGRVVSWYLENYLANLFAGAWEPQPEGPLPLDIPQASPQQVQRCVEILSRAKRPLMVLGSQALLTPTS
ADKLRAAVETLGVPCFLGGMARGLLGRNHPLHIRENRSAAKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR
NREEMLLNSDIFWKPEAVQGDVGSFVLKLVEGLQGQTWAPDWVEELREADRQKEQTFREKAAMPVAQHLPVQV
LQLVEETLPDNSILVVDGGDFVGTAAHLVQPRGPLRWLDPGAFGLGVGAGFALGAKLCRPDAEVWCLFGDGAFG
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV
LHDAQQQCRDGHVPVVNILIGRTDFRDGSIIV

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FIGURE 5310A

CGCGCGCGGAGGCTGGCCCGGGACGCGCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGGTTCGCGCCCGGCCG
CATGGGGCGGGGGCCCGTGCCGCGCGCCGCGCGCGTGCCTCGCCGATGTGCGCCGCCACCGCCACCGCCACCGTGC
GGCGCTGCCCCGTGCTGCTGCTGCTAGCGGGGGCGGGGGCTGCAGCCCCCCTTGCTTGACGGAAGCCCGTGTGC
AAATGGAGGTCGTTGCACCCAGCTGCCCTCCCGGGAGGCTGCCTGCCTGTGCCCCCTGGCTGGGTGGGTGAGCG
GTGTACGCTGGAGGACCCCTGTCACTCAGGCCCTGTGCTGGCCGTGGTGTCTGCCAGAGTTCACTGGTGGCTGG
CACCGCCCGATTCTCATGCCGTGCCCGCTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTCAG
CAGCCCTTGTGCCACGGTGCCGCTGCTCAGTGGGGCCCGATGGACGCTTCCCTGCTCCTGCCACCTGGCTA
CCAGGGCCGAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGACCTGCCT
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGGGTGCC
CTGTGCACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCTGTCT
TCTTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGAC
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCTGCACGGAGGACGT
GGATGAGTGTGAGCTGCAGCCCAACGCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAAGTATCGATGACTGTGCCACAGCCGTGTGCTTCCA
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCTGCCCATGGGCAAGACTGGCCTCCTGTGTCA
CCTGGATGACGCTGTGTGACGAACCCCTGCCACGAGGATGTATCTGTGACACAAATCCGGTGAACGGCCGGGC
CATTTGCACCTGTCTCCCGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA
CCCCTGCGAGCACTTGGGCAGGTGCGTGAACACGACGGCTCCTTCTGTGCCAGTGCCTGCTGGCTACACTGG
ACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGCCCTGCCGAAACAGGCCACGTGCCTCGACCGCAT
AGGCCAGTTACCTGTATCTGTATGGCAGGCTTACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG
TAGCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCACTGACCTGCCCCCTCGGGCTTCA
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCCGACGACGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA
GCCCGATGGCTACGAGTGGCGTGTGCCGAGGGCTTTAGGGCACGCTGTGTGATCGCAACGTGGACGACTGCTC
CCCTGACCCATGCCACCATGGTTCGTGCGTGGATGGCATGCCAGCTTCTCATGTGCTGTGCTCCTGGCTACAC
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGACGCCAGCCCTGCCGCCATGGCGGCAATGCCTAGACCT
GGTGGACAAGTACCTTGCCTGCTGCTTCTGGGACCACAGGTGTGAATGCCGAAGTGAACATTGACGACTGTGC
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTCA
AGGGCCCCCTTTGTAACTGGAGATCAATGAGTGTGCTTCCAGCCCATGCCGCGAGGGAGGTTCTGTGTGGATGG
GGAAATGGCTTCCGCTGCTTGTGCCGCTGGCTCCTTCCCCCACTTGCCTCCCCCGAGCCATCCCTGTGC
CCATGAGCCCTGCAGTCACGGCATCTGTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGGAG
TGGCCCCGCTGCAGCCAGAGCCTGGCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGCAG
CAGCGATGGAATGGGTTTCCACTGCACCTGCCCGCTGTGTCCAGGGACGTCACTGTGAATCCTTCTCCCCCTG
CACCCGAACCCCTGTGAGCATGGGGGCCGTGCGAGTGTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCCA
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGACCCCTGTGGCCCTCATGGTAT
CTGCACCAACCTGGCAGGGAGTTTCACTGCACCTGCCATGGAGGGTCACTGGCCCTTCTGCGATCAGGACAT
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTTCTGCTCCTG
CCTCCCTGGTTTCGCGGCCACGATGCGCCCGCATGTGGATGAGTGCCTGAGCAACCCCTGCCGCGCCGGGCAC
CTGTACCGACACGTGGCTCCTTACCTGCACCTGCCCGCCAGGCTACGGAGGCTTCCACTGCGAACAGGACCT
GCCGACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAATCGTTCACTGCCTGTG
CCGTCCCGCTACACAGGAGCCCACTGCCAATAGAGGACAGCCCTGCCTCTCGCGGCCCTGCCTACACGGGGG
CGTCTGCAGCGCCGCCACCCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACGGGGCCCGAGTGCCAGACGCT
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAACGGGGGTGCTGCGTCCAGACTGGGGCCTATTGCCTTTGTCC
CCCTGGATGGAGCGGACGCTTGTGACATCCGAAGCTTGCCCTGCAGGGAGGCCGACGCCAGATCGGGGTGCC
GCTGGAGCAGCTGTGTGAGCGGGTGGGAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAGGG
CCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCAGCCCTGCCAGCATGGGGGGACCTGCCG
TGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGACGA
GTGTGCTTCCAGCCCTGCCAGCAGGGGGTTCATGCATTGACCTCGTGGCCCGCTATCTGCTCCTGTCCCC
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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FIGURE 5310B

GTGCCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCAGGATACTGGTTT
GCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA
CCCAGGCGGAGGTTTCCGTTGCCCTTGTGTCATGCTGGCTTCTCAGGTCTCGCTGTGAGACTGTCTGTCTCCCTG
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCTAGCCCGGGTCTGGGGGTGGGCTGACCTTCACCTG
TCACTGTGCCCAGCCGTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCTGCCGGGAGCTGCAGTGCCCGGT
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCTGCCCGCCAGGGTTGTGGGACCCCTCTGCCG
CAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCCTG
CCGCCCCGCGCGCTGCGCGCCCTTCTCCGCTGCGCTTGCAGCGAGGGCTGGACCGGGCCGCGCTGCGAGGCGCC
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACACGCG
CTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGCGACTGCTCGCTGAGCGTGGGCGACCCCTG
GCGGCAATGCGAGGCGCTGCAGTGTGGCGCTCTTCAACAACAGCCGCTGCGACCCCGCTGCAGCTCGCCCCG
CTGCTCTACGACAACCTTCGACTGCCACGCGGTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG
CGCCGACCACTTTGCCGACGGCGCTGCGACCAAGGGTGCAACACGGAGGAGTGCAGGCTGGGATGGGCTGGATTG
TGCCAGCGAGGTGCCGGCCCTGCTGGCCCGCGCGCTGCTGGTGCTCACAGTGTGCTGCTGCCGCCAGAGGAGCTACT
GCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCTGCGCACCTGCTGCGCTTCCGCTTGGACGCGCA
CGGCCAGGCCATGGTCTTCCCTTACCACCGCCCTAGTCTGGCTCCGAACCCCGGGCCCGTGGGAGCTGGCCCC
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCCGTCAGTGCCTGAGAATGATCACTG
CTTCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGAGCGGTGGAGCGCCTGGACTTCCCGTACCC
ACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGGCGGG
CGCTGTCTTGTGCTGGTCACTTCTGCTCTGGGTGTGATGGTGGCCCGGCGCAAGCGCGAGCACAGCACCCCTCTG
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTCAACAAGGCGCGCGGGAACCCGTGGGCCAGGA
CGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA
GTGCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTCACTG
GACTCAACACCATCTGGTGTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACACAGGGCGACGC
AGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCTTCTGTGG
GGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTGCACCTGGCTGCCCGTTATGC
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCAGGACCACTCAGGCCGCACTCC
CCTGCACACAGCTGTACAGCCGATGCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTTACAGACTTGGA
TGCCCGCATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCTGGCAGTAGAGGGCATGGTGAAGAGCT
CATGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA
CAACGTGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC
CCTATTCTTGGCCGCCCCGCGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTGAGGACCTTTGCCAACCGTGAGAT
CACCAGCACCTGGACAGGCTGCCGCGGGACGTAGCCAGGAGAGACTGCACCAGGACATCGTGCCTTGTGGA
TCAACCCAGTGGGCCCCGAGCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCCAGGGGCCTTCCT
CCCTGGCCTCAAAGCGGCACAGTGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGCTGGGGCCGCA
GGGGCCCCGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCGGGGCCCCCTGGCTGACAGCTCGGTACAGCTGTG
GCCCCGTGGACTCGCTGGACTCCCCGCGGCCTTTCGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTTAGGG
GCCCTATGCAGCTGCCACTGCCACTGCAGTGTCTTGGCACAGCTTGGTGGCCCAGGCCGGCGGGTCTAGGGCG
CCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCTGCTGAACCTGTGGCTGTGCCCTCGATTGGGCCCCGCT
GCCCCACCTGCCCTCCAGGCCCTCGTTCTGCTGCCACTGGCGCCGGGACCCAGCTGCTCAACCCAGGGAC
CCCCGTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCCAGGACATGGCGAGGAGTACCCGGCGGCTGG
GGCACACAGCAGCCCCCAAGGCCCCGCTTCTGCGGGTCCAGTGAGCACCTTACCTGACCCCATCCCCGA
ATCCCCTGAGCACTGGGCCAGCCCCCTACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCCAGCCAC
TGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCCTGCCAGCCACTTCCCTGTCTGTCTCCAGCTCCCT
TGCTCAGGCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG
TCAGTTCTTAGATCTTGGGGGCCCTAAAGAGACCCCCGTCTGCTCCTTTCTTTCTGTCTCTTCTTCTTTT
AGTCTTTTTCATCTCTTCTTTTCCACCAACCTTCTGATCCTTGCTTGCAGCGTGACCGAGATAGGTCACT

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FIGURE 5310C

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCTCTCAGTCTTGTGAAGAGTC
TGGGACCTCCTTCTTCCCCACTTCTCTCTTCCCTCATTCCCTTCTCTCTCCTTCTGGCCTCTCATTTCCTTACAC
TCTGACATGAATGAATTATTATTATTTTTATTTTTCTTTTTTTTTTACATTTGTATAGAAACAAATTCATTTA
AACAACTTATTATTATTATTTTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC
CCCCGTGGGGCTGAGTCTGTGGGCCCATTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGGTC
GGGGGAGTGTTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG
CCTTGCTGGGGAAGGGCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTGGGAACTAG
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTGTGTCCCTGTAAATGTGGGACTACAA
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCTGTAATCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT
TTTTAGGCTATTTTTGTAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA
GCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACTC

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FIGURE 5311

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT
TAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAAACAAGCTTGACC
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA
AGGTCAACACCCTGATTCGGCCTGATGGAGAGAAGAAGGTATATGTTGACTGACTCCTGATTACGATGCTTTGG
ATGTTGCCAACTATATCTTTTACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTACCCCTGCCA

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FIGURE 5312

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTGAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCAGGAGGTGTCTGAACTAAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAAGTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAGAGCAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACCTTAAGTATATAGCAAAACAGAGAGTCTTGTTCACACAG
AAACTCTGGAGCTCCGTGGGTCTTCTCTTCTCTTGTGAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCTTATTTTTTCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTCTTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAACTATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTGCGCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTGAGGAGTTGAGACCCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAAT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACCACAGCGCTCCAGCCTGGTTCGACAGAGTGAGACTCCATCTCAAGAAAAATA
AAAAATAAGTTGTTCTCTGAAGAGCAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCATACTTCAGGGAACAGCAAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 5313

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaadesERGmKvienRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEAEVS
ELKCGDLEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLTDQTLNELNCI

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FIGURE 5314

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCCTCGGGGAGAGAGTGTAAT
TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCCT
GTTCCGCTTCTCCGAGGACGCCITCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAATTAGGACCAT
AGAGCTCGATGGCAAGAGAATTAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAC
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG
GAACTGGATTTCGAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAGATGATACTCGGGAACAAGTGTGATGT
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAGCTGGCCCTCGACTATGGAATCAAGTTCATGGAGAC
CAGCGCGAAGGCCAACATCAATGTGAAAAATGCATTTTCACTCTCGCCAGAGATATCAAAGCAAAAATGGACAA
AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG
CTTTTTCCGATGTGTTCTTCTG**TGAGGA**ACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT
TCTGAGTGAGCCCCTCACTCAGCCGGGGCCCTCCCACCTCCAACGCCCGCCACGCCCGGGCCACCGGGCCAC
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTTCACTTTGGAGATGGAATAA
GTTAAAAATTTGCTATTTTTCTGTAACTCTGCTGAACGGGGCCACCCACACGTTGTATATTAGAGAGAGAGA
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT
GCAACACAAAGCTCCACCAGGAGGCTGGTTACGTCCTTACCACGGAAGCGAGGTCCCAGAAGGCCAGCGGTGG
TTCCAGGAGCAACAGCTCCCAAACCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
TGGCGCCCACTTCCACCTCTTCTCTCAGTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA
ACTGTAAACCAAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAAGCCTGGAGCAG
CCTCTCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT
GTGTGCTGCAAGTGACCCCGAAAACAACACAGCCGTACATGGTCCTCCTGAAGTTGGGGCACCTCCTCTCAG
CACCAAAATGGCCCCCACTCCTTCGTGCTCTCCGCTATCTCAAATCGGACGTTCTTTCTAGCTGAGATTTTA
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTTCCAATGGCAAACCTGGGTGATCGGGAACAA
GCACGTTGTACCCTTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT
GGCTTGATTTTCAGCCGTCATCATTGGGTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC
AGGTCAACCACGCCAGGGGGGTGTCACCAGCCTTTCTTTTTTCTTTCTTTTTTTTTTCTCTCCTTAAGCTG
CTGTCAATCCAACCATTTGGCATCATCGTTTCTTTTCAATTAAACCAACATATCAGCAATAGTCTGCTCTCCCC
GGGAATCTCTAATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAACAAACAAATTAAAGCTCATCTTAAA
GTCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5315

MAKTYDYLFKLLLLIGDSGVGKTCVLFRRFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFTITT
AYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQRSSFFRCVLL

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FIGURE 5316

GGTGAGCTGTGCGGGGCGGCGCCCGGCCTTGCTCAACGCCCAGCAGTCCCCACCGTCGCTGCCGCCGCCACCGCC
CTCGGCCGCTGCCGAGGCCTCCTGCAGCCATCATGTCCGCCAGCGCCGTCTACGTGCTGGACCTGAAGGGCAAGG
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTCAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA
AGGAGGAGGAGGGGATGCTGTGCCCCATCCTGGCCCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC
TGTATCTGGTTGCCACATCCAAGAAGAACGCGTGCGTGTGCTGGTCTTTTCTTCTCTATAAGGTGGTGCAGG
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACTTGTTATCATCTACGAGCTGCTGG
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGGAAGGCC
ACAAGCTGGAAACAGGGGCCCCGCGGCCACCAGCCACCGTCACCAACGCGGTGTCTGGCGGTCCGAAGGCATCA
AGTATCGGAAGAATGAGGTGTTCTTGGACGTATCGAGTCTGTCAACCTCTTGGTCAGCGCCAACGGCAATGTCC
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCTCTCGGGCATGCCCCGAGCTGCGCCTGGGCCTCA
ACGACAAGGTCTCTTTGACAACACGGGCCGCGGCAAAAGCAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC
AGTGTGTGCGGCTATCACGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCCGACGGCGAGTTCGAGCTCA
TGTCCTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTTCGGTGATCGAGAAGCACTCCCACAGCC
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC
CCGTGCCCAATGATGCCGACTCACCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG
AGATCGTGTGGTCCATCAAGTCCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCACTTCGGCCTGCCTAGTG
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCGATCAGTGTCAAGTTTCGAGATCCCTTACTTCACTACCTCCGGCA
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGAGCCAACACCCCGCCTCGGGCTCCTGGTGGCAGC
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC
AGGGACTCCTGCCTTCACCAGGGCATCTGCTCTGCCGTGACACTCGTCTCAGAAGCCCCCTTTCCAGAAAGAGGC
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTCCGTGTAGA
GGTTACAGCCTTTTATGCTGTTGAGCTCCCAGGTACAAAAAGCTTGGCCAACGCTTGCCAGCCAGCCAGCTGCA
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTTGTTGCCATTTTGTGAA
CGTTATGGGTTTATGGGTGTTCTTGGAACCTTGCTTTGTGCATTCGTTGCTGTTTGTGTTACCCTCACTGTCCCC
ATGTCCCACCCACGTCTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCCCTTCTGTCTTCTTCC
CGGCAGCGCCGACGCGGGCATTACACGTCGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC
TGCTCCCTGGACTCGCAGGCCTCGCCTGTGGCGCCTTCCCAGGGCCAGCCTGGGTACGAGATGCTGTCACTCAG
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTTCCCACTGAGG
GTCCAGAGAGCGGGGCCACGTGTCACCACGTCTGCGCTTGGTCACCCGTCTCCCCACCCTGTGTGTGTTTATG
TCATAGTTACATTAAATTCCATTCATTG

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FIGURE 5317

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGGGAAGAGAAATGGCTTCTGCAAGGAAAGCC
AGCCGTCCCATGCGTGATGTTTTTGGTGACITTCAGTGATGTTTCCCTTGAAGATTCAACAATGGAAGAAATCAGA
AACTTCCAGATCAGTAGAAATCTTACCAAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACTCTA
GATGAGAAACACTTACTCCTGAAAGAGAACCTGTGCTCGGGAGTGGACCCAGGCTTGCCCTCATGTAGACCGCCC
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCCAGCTGGAAACCCGGATCATGAATCGG
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCTGGTCTTCCAAAGAGAGCTGAC
AGAATCCTCTCTGGGGGTGCACTCGAACTCGCGTCCCAGAACACAGACAAAACCTTCCAGAAATCAAGCCCGTGAA
CTTCCTGTACCGAAAATAATGCACAGAACGCGAAGGTCTAGTGGTTTCTAAAGAAGAAAACAAGCACCTGTTGAA
AACATATCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAACCCCAACAGAAAGAACCTGCTAGAACAA
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA
AACACGAATCAAGGCTTCAGCAGCGCTAACGTACGCGAGGAAGAAGAAAGAAAACCTATTTTCGGTCCCATCTCAA
CTGAGAGCATTACTGTACCCAGCGTGAACCTCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC
CTGGCAGCAGACAGAACCCTTCACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC
GCCTCCACACGCGCTCAGTTTCCATCACAGGCGCCTTTTCAAACCTCAGTGTCTTTAAAGATGGGGCATGTCAAG
CTTGCTGCTCCCCGGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTGAGTGAAGTCCGATTGGAACAG
GAAGAGGAAAGTGCTCAGAGACAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC
CCGAGGCAGGCCAGGCGAGGAGCTGGGCATCACAGGGAAGGCCGCTCTGCAGAGGGGGATGAGAGCGAGGTC
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCATCTGAA
GCCCCATGGTGAACACAGTCAGCTCAGCTTATTCGGAGGATTTTGAAAACCTCTCCAAGTCTGACAGCATCTGAG
CCAACCGCCCATTTCCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT
GTGCAGACGCCAGATCCTGCCTTACCTACGAGTGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCCTGCCCTG
GGAGGCGCCTACGTGGACCCGACACCCATCGCCAATCATGTTATCAGTGAGATGCAATAGAAGCCCTGACCGCT
TACAGCCCGGCCGTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGCAGCAGTTTATCCAGGCC
AGCCGGCACCTGCACGCCTCCCTCCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCACACCCTGGAGGAAGCC
AAAGAGTACATTAGGTGCCACAGACCTGCCCCACTGACCATGGAGGATGCCCTGGAGGAGGTGAACAAGGAGCTG
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCGCAGCTTCCAGAGTTACCAGCG
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGCGCTCGTCTTCTGGGGAGTACG
ACTTGGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGCGACCTGCTCCGACTTCTGCAGGGAA
GGGTGCCAAGGGTCAGCAGCAGCCAGGCGTCTGGGGAGGCCACAGGAAGGGGCCTCAGGCACTGCCCTGAGGC
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGCGACCTTGACCTTGAGTACGAGCC
TGAAGACTTGGAGGATCTTGAGTTGGAGCGGGAGGAAGAACGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA
GGGTCCGCTGTGGGGAGAGGCCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCACCCTGGCCCTCA
GGTTCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACCGTACCAAGTT
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATCAGGCCTTGTGAAAAACACCGCCCATAGGCACAGGCT
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCCACCATCACAAGCTGTGGACCTTGCCCCCGG
CCACTGCAGACATCTGCGCTTTTACCTGTTCCTTCTCCTGGCCTTTCCCTCCGCGGGCCGCAATTTTGTCTCG
GAAGAACTCATAGAGGCCGTTCTGCTCCAGCCTTCACTGTAAGACACGGCATTCCGTGTGTGACCACGTGACAC
CCACCCACAAGGAAGTCGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGTTTCACTGTTCCACAGGGCTGTCTCTGTCAGCCAGTGGC
TCCTCTGGTGCCACGCCCTTGCCACCCTGCTGTTCCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAAGTGGGA
AACAGGAACACTGACTCATGGGTGGACAGGCTGCAGCCAGCAGGAAGGAGGGGTGACCACTGGGAAGGGTG
GGCTGAGGGCCCTGTGGCAGCGGCTGCTTGAGACGTGCCCGCTGCCACACCTTCCCTAACTTCTTCTGATGTG
TCTCCATTAAACGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5318

MASARKASRPMRDVFGDFSDVSLEDSTMEIIRNFQISRNLTKIAPGHSRFLKRNQTLDEKHLLENPVLGSGPR
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRIILSGGALELASQNTDKT
SQNQARELPVTENNAQNAKVSRLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL
MDSSREKNTNQGFSSANVSEEEERKLFVPSQLRAFTVPSVELSSAKPSQTSHLPTSAAADRTLHSTRSRADYPQ
SHVSSDTASHTPSVSITGAFSNSVSLKMGHVKLVSSEPRSEAEVDEPVSEGAADDLDEFINILSLDGLAPAVS
ENSDLEQEEESAQRQKTAKIFRAEASTGQDAPRQAQARSWASQGAASAEGDESEVSEHLSASSASAIQQDSTS
SMQPPSEAPMVNTVSSAYSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSVKTDLPQTAESESRKSGRHVTR
VLVKDTAVQTPDPFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL
TQQFIQASRHLHASLLRSLDADSFHYHTLEEKEYIRCHRPAPLTMEDALEEVNKE

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FIGURE 5319A

GGCACGAGGGCAGACGGCGCTGGTGGTCGATCGTGTGGCGCCGGAGGACGTTCCCCGGCGCCGGAGCCATGGAGA
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTCATCGACAAGCTCGCCAGTTCTGTGGCTCGCAATGGGC
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCTCGTTTCTTTTCGGAGGCGAATTCT
ACAGTTACTACAAGTGCAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGGAGCTGGAGC
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCGCTGGCCCCCGCCGCGCCATCCCGCCGGCCAGGGCGCGC
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGAACCTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC
AGGAGCAAGTGACAGCGGCGTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG
ACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA
ACTGGATGTTAGCAATGCCAAGTCCCCGCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA
AGCAGGCCCGGAGCTGCTGGCCGCCCTGCAGAAAGTCTGTGGTGGCCATCTACTGCACCAGCTTCTTGGCCGTGG
AGGAAGACAAGCAGCAGAAGATCGCCCCGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTTCGATGACTCCATCA
TTCAGCAGCTACAGAGCCAGCCCTGGGGCTTGGTCAGTACCAGGCCACCCTCATCAACGAGTACTCCTCAGTGG
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCCTCAAGACGCAGCAGCAGGAGTTTGTACCAGCC
TGGCCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGCAGATGGAGGCTGAAGTCAAGG
CCACGCTCCACGCTGCTCCACCCCGGCCACAGCAGCTGCCCTGCCATCCCGCCACCACCCAGCCTGATG
ACAGCAAGCCTCCCATCCAGATGCCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGTCCAGGATCTTCAGCTG
CCGGCCCCCGGGGCCCCGGGCCACACGACCAGATCCACCAAACAGCCCCCTTGGTTTGACCAGCTCACCCCG
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCCTACCCGCACCACCAGGGCGGCCACCCCACTGCC
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGGTGGAACGGCCAGCGCGACG
CGCCCTGGAACAACAGCCGACGCCGCTGGAACAGCCAGTTCGAGGGCCCCCTGGAACAGCCAGCAGCAGCAGC
CGCCCTGGGGCGGGGGCCAGCGCGAGCCACCCTTCCGCATGCAGCGGCCCCCACACTTCCGGGGGCCCTTCCCGC
CCCACCAGCAGCAGCCGCGAGTTCAACCAGCCTCCGCACCCCACTTCAACCGCTTCCCGCCCCGCTTCATGC
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCCGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT
TCCCTGCCGAAATGGGGCCCCCTCACCACCACCCTGGCCACCGCATGCCTCATCCTGGCATCAACGAGCAGCCGC
CTTGGGCTGGACCCAGCACCCTGACTTCGGCCCTCCCCCATGGCTTCAACGGGCAGCCCCCACACATGCGGC
GACAGGGCCCGCCACATCAACCACGATGACCCAGCCTGGTCCCAATGTGCCCTACTTCGATCTCCCTGCTG
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTGGACCCTAAAGACATCCGCTCCCAC
CCCCATGCCGCCAGCGAGAGGCTGCTGGCTGCAGTGGAGGCCCTTACAGCCCCCGTCCACGACAGGCCCA
GGAACAGTGAAGGCTGGGAGCAGAACGGCCTCTATGAGTCTTCCGAGCAAAAATGCGGGCCCGCGGAGGAAAG
GCCAGGAGAAGAGGAACAGCGGACCCTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTCTTCTCCCGCT
CCAACCTCAAGATCCTCCAAGTCTTCAGGCTCGTACTCAAGGTCAAGGTGCGGCTCCTGCTCCCGTTCCTACTCCC
GCTCCAGATCTAGAAGTCGGAGCAGGTGCGGCTCCTCCAGAAGCCGCTCCCGGTCCAGTCGCGGTCCCGGTCCA
AGTCGTACTCCCAGGAAGAAGACGCCGCTCACGGTCCAGGAGCCCCACCCGCTTCTCTGCTGGTCTGGGT
CTAATTGGCGCCTCCCATTCCTGACTCAAGGCTCGGAGAAGAGAAACAAAGGCCATCAGATGCTGGTGAAGATGG
GCTGGAGCGGCTCAGGCGCCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG
ATAAGTGGGACCACTATAAAGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAACTACCGCAGGAACAAGAGCT
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGAAGTAGCGCCCATGCCGGAGCCGCGCCGTTGGCCA
GCGGTGCCGGCTGTGGGACCTTCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC
TCCACTTGTGGAGACCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACGCCGCTGCTCCATGGCGTG
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAGGGCCCCAGGCTCGTTTTCTTTA
TAGCGAAGCAAAAAACACAAGACCTCCGCCCCAGTAAATTCTTCAGCCACGAAGGGATGGATGTGCATCTGCCC
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC
ACCCAGCTCCTTCTCCAGCTCCCCGACCCACCGGCCCTGACCTGGCTTCCCTCGGCTGTGTAGGGACAAAG
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAAACAGAAACACAAACTTTGACTTGACTTGCGAAGTGAA
GCAGGGTTTTTACTTTTACTTCTTGGTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG
ATTCTGAAACCTAATTCTTCGAAGGCGTACTGGCCCTAGTTTCAGTTATTTTAGTTGTATAAGTTGATATTTT
TTCTGGAATGTAGCCATTGCTGTTATCTGGGAAACAAGATTCTAACAGGAAACAGCCTAAGACACTTCAGGTT

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FIGURE 5319B

GAGCGCTGCCTCGGAGTCTGTGCCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGAAGAACCCTGCACCGGCTG
GCGTGTGCGACGGCCCAGTCCCATCCAGAGCATGGAGCCCGACCCAGCCAGCGCCTTCCACTCCATCATTTCAT
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAGCTGGTGGGTGACCGTTGGGAAT
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCCATTCAATTTGTACAGAAACATTTTTGAAAAATTCTT
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTGTTCCTAGATTTCCTGTA
GCTGTGAATTGTAAAATGTATGATTCAAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTTCAT
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5320

MTMEKQKDNPKFSFLFGGEFYSYKCKLALQEQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE
LIQQSQWNLQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS
NAKSPPHCELMAGHLRN RITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVP IYCTSF LAVEEDKQ
QKIARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTS LAQQQ
QQQQQQQQQLQMPQMEAEVKATPPPPAPPPAPAPAPAIPPTTQPDDSKPPIQMPGSSEYEAPGGVQDPAAAGPRG
PGPHDQIPPNKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPWNN SHEGMWGEQRGDPGWNGQRDAPWNN
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRP PHFRGPFPPHQHPQFNQPPHPHNFNRPFRFMQDDFP
PRHPFERPPYPHRFDYPQGDFFAEMGPPHHHPGHRMPHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRRQGPP
HINHDDPSLVPNPYFDLPAGLMAPLVKLEDHEYKPLDPKDIRLPPMPPPSERLLAAVEAFYSPPSHDRPRNSEG
WEQNGLYEFFRAKMRARRRKQEKRN SGPSRSRSRSKSRGRSSSRNSRSR SKSSGSYSRSRSRSCSRYSRSRSR
SRSRSRSSRSRSRSQSRSRSKSYSPGRRRRSRSRSTPPSSAGLGSNSAPPID SRLGEENKGHQLVKMGWSGS
GGLGAKEQGIQDPIKGGDVRDKWDQYKGVGVALDDPYENYRRNKSYSF IARMKARDECK

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FIGURE 5321

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCTGCGCGCTGGCGCGTGCCCCCGCGCCGCCCGT
CTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCGGGCCGCTGCTGCGCGCGCTTCTACCCGCGCTACGTGCT
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTCAGCGCACGTGAGCATCTGGAAGGTGCCGCTGTCTATGC
ACACACCGTCAAGGCCACCATGCCCATCTGGGTGGTCTCTCTGTCGCCGATCATTATGAAGGAGAAGCAGAGCAC
CAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCTGCTGGCCACCGTCACCGAGTTGTCTTTGACAT
GTGGGGACTCGTCAGCGCCCTCGCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAGGTCTTGCG
AGATTCACGGATCCACCATCTCCGGCTGCTCAACATCTGGGCTGCCACGCCGTCTTCTTTATGATCCCCACCTG
GGTTCGTGGGACCTCTCGGCTTTCCTGGTCAGCAGCGACTTGACCTACGTCTACCAGTGGCCCTGGACGCTCCT
GCTCCTGGCTGTGAGCGGCTCTGTAACTTTGCCAGAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC
CCTGAGCTACTCGGTGCGCAATGCCACCAAAAGAATCATGGTCATCACGGTGTCCCTGATCATGTGCGCAACCC
AGTCACCAGCACCAACGTCTGGGCATGATGACCGCCATCCTGGGGTCTTCTCTATAACAAGACCAAGTACGA
TGCAAACCAGCAAGCCAGGAAGCACCTCCTCCCGTCACCACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG
CCCACTGGAGAAGCCCCACAACGGCCTCCTCTCCCCCAGCAGGGGACTATCAGTACGGCCGCAACAACATCTT
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAAACTCGTACAGTTTGAACCGCTATGATGTGTAGAGTCC
AAAGGACAGGACCAGACTGTTGGTGACTCCTTCCCCGGCCCCACAGCAGTATCAGAACTTCTGACAATCAGTG
AATGTACAACCCAGCCGAGGGGACGGTGCATAACTCTCCATCAGAAGCCCTGGGGTTCCTGGCCCCCGTGAGCC
GCAGGAGGATGCGTTGCCGTGAGTGCAGACGGCCGTGAGCTCTGGGCAAACCTAAACAGAGACCAGTGTCTCATG
CTCTTTCTTCTGGAGTCTGTCTATCTGAGGGCCGTGTCCCTGCGGAGATCTTGGCCACGTTGTACCTTTCCATGT
GGAATTATCCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTACAGGACCTGTGTGAAA
AGCTGGGGTCACTGTGGCTGTAGACCATGAATGGCAGTGGGGTGTCCAGGGCGGTGCTTGAGAACGTGAGACT
GGCTAGTTTAAATCCCTGGCCGAGATACGCATAGGACCAACAGGGTCACCAAGCAGACAGGGAGCCCGCGAGAAT
CATTCAAAACATCCCCAGCCACAGAGATGGATCCAGTTTCCCTGGTCATCCCCCTTAGCAGTTCACAAGTTCTGGC
AAATGTTCCAAAGCAAAAAGCGATTGCAATTAGCATCCAGTTCTGTCAGCCTGGTGCTCTGCCCTGCACGTGAGG
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCCTCCTCTCCCTCACCAGAGCA
GGGCGCTTCTCTTGGGGTGGTGAGAAGGATCTTCGAGAAATCGTGTTCAGTATTTCAAGCTCTATTTCTGTGGCA
CATGTCTTTTGAGAGGCATCTTACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC
GGAGGATCTTGCATTTTTCTAGGGAATATTTTGTAGTTGTGTGTGTGTGTTTTGCCTTGGTCCCCATTATGGGA
TGCATTAGGACTGGCCTATGCATCGAAAATCTTTTGTGTTGTAACGTTTAAAAACAAAGTTCCCGGCCAGGCA
CAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTGAGGAGTTTCGAGACC
AGCCTGGCCAAACATAGTGAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAAGTTGTGGTGAGCCGAGAT
TGTGCACTCCAGCCTGGGTAAACAGAGCGAGACTCCATCTCAAAAAAACAACAAACAAAGTTCCCACTGGT
GATGCCTGTCTGACACGTTTTGGTATTTAGTAGGAAATGAAGTGTTTCGAAGCTTCGAGAGAAGCTTCAAAATTG
TCACAATTGCTGAAAACAGAAATGAATCGTGAACATTATCTCAATATTTGTATAATAGACAAGACCACAGTGT
TGGTTCCTTGACCTGTTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAAGGGGACGAGGAGCGAACAC
TGCACTAAGATTTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCCTGGCCAAACATGGTGA
AACCCCATCTCTACTAAAACAAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATCACTTGAGCCCAGGAGGTGGAGGTTTACGCGAGCTGAGATCACACCACTGCACCTCAGCCTT
GGTGACAGAGTGAGACTCTGTCTC

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FIGURE 5322

MPiWVLLSRIIMKEKQSTKVYLSLIPiISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVLRDSRIHH
LRLNLILGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLLLLAVSGFCNFAQNVIAFSILNLVSPLSYSVA
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKERHRSPLEKPH
NGLLFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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FIGURE 5323

GGCACGAGGGGAACATCTTCATGATGTTCTGCATGATTGTGCTGTTTCGGCTCTTGAATCCCAGCGATGAAACCAG
GAACTCACTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCTGATGACTTCAAGAATGTTTTTGACCAGAAAA
CCGACAACCTTTCCAGAAAGTCCAAGCTCGTGGTGGGTGGAAAAAGTGTTCGCCGAGGTGTGCATGGTTTTCCAGC
CACGTCCCTGTTTTCAAAGATAGTTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTTCAGGAG
CGTTTTATGAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAGAAAAATCATTTCTATCCAGAGATCTGA
GCAGAAGGATTGGCTTGTTAGTTTAACACAGCCGTATTTTTGGACATTCAGTGTTACTTGCTGAGTCTGACAGCC
TCTGGGCCCGGCCAGGGGCCCTGTTAACAAACTGCTTTTACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGCCACCTGTAAACAGAGACACCAGCCTTCCTGTATAGACACTAA
ATTGTTAGCAAGAGTGTTGAGCTAGTTCCTGGTGAAGTGTTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA
TTAAGGGAACCTTTCTCTGCCTTGACCCCTTTGTTAAATAAAATGACTTTGGGAGCCATTTCATTGTACAGTTGC
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAAACCTTGGGTTTCTGAGTCTGCTTTTT
GAGTAGGTGATTTTGAGGTTGAAAAACCAGGGGCCTTCATCTAGGAAATACAGCATTTTCCAGAAGCTTCTTTGA
AAGGGAATCCTGGTTTTTGTGCCAAAATGAAACGCCCGGGGTTGGCGCTGAATCCCACAACCTGTGTGATTTGCTT
GTTGAGTTTTTTGTTGCTGTTTTTTTTGTTTGTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT
TTGAAATCCTGACTTGGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC
TTGAAATAAACCTCATTTCTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5324

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGGKVFAEVCMVSPRPFQR

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FIGURE 5325A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCTACCACCTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCATCAAGGAC
GCCATTGCCAGCCTGCGGCTGGACGGCACCAGTGTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGCACAGGACGAGCACCT
CAGGAGGATGGCTACTACTTCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGCCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACTCCCCGAGCTAACCGAGGGCAACCTCCTGAAGAACCTCAAGCACCCTTCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCTTGGTGGCCATCAACCCCTTTAAGTTCCTGCCCATCTACAACCCCAAGTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACC
ATGCTCAGGAAGCGCGTGAACCACTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGAAGACCCAGAGCACCAAC
TTCTCATCCACTGCCTCACCGCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGAAATGCCAAGACAGCCCACAACAACAACTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTGCTCGAGAAATATCTGCTTGAAGTCTCGCCTG
GTGTCTCAGGAGAAGGATGAGAGGAACCTACATGTGTTTTATTATTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTCAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCTCCCCGCCACCAAGAAGCAG
ATTTTTGCCGTCCTCTCGGCCATCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTGGAGGTGCGGGCCACCCGAGGTGCTGGACACCTGTGCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG
GAGGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGACAAGCTTATCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCCGACTCCATGGCCAAGTCTCTGTACAGCGCCTGTTCGACTGGATTGTGCTGCGGATCAACCACGCA
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCTGTCCATTGGGGTCTTGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCACGTGGCACAACATCGGCTACACAGCAAT
GTGCGCTGCATCCATCTCATCAGCAAGAAACCCAGGGCCTCTTCTACCTGCTGGACGAGGAGCAACTTCCCC
CACGCCACGAGCCAGACCTGTGCGCAAGTTCAACAGCAACATGAGGACAATAAGTACTTCTTGGGCACCCCG
GTCATGGAGCCAGCTTTTCATCATCCAGCACTTCGCGAGGGAAGGTGAAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGCCCTGTGCGGGGCGAGTACAGCTCCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGTTCGGGAG
GCCGGACGCTGCGGGCCGAGAGGGCCGAAAAGGTGCAAGGTATGAGCAGCCCTGGTGCCAAAGTCACCCAGAA
GAGCTGCCAAGAGGAGCCAGCACCCCTTCGGAAAACTTTACCGCGATTGTCATAACCAAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC
TTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCGAGTTCCAGACATCCCTTAACAAGCTCTTGGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATC
CGCTGCATCCGTTCCAATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCTGCAGCAGCTGCGCTAC
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTGAGGTACAGCGCAAGTACAGTTCAGGATTTACCGAG
CAGTTCAGGTGCTCCTGCCCCAAGGATGCCCAGCCCTGCAGGGAGGTGATCTCCACCTCCTGGAGAAAATGAAG
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGCGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGTGGAGCGTTCGGCAC
TTCTGTCAGATGAAGCGGGCCGCGCTCACCATCCAGGCCTGCTGGCGGTCTACCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTTACCGGCACCGAAA
CAGAGCATATCCGCTGCAGAGCCTGTGTGCGGGGACCTGCAGCGCAAGAGCTTCAGCCAGATGATCTCGGAG
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCGGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCAAGTGACAGGTCCCCCTAGAGCACTCTCACCTGAGAAGGAGGCCCAAGCCAGAGAAAG
ACTCTCCACCCAGAAAACCGTGGCGGCTGAAAGTACGAGAAAGTCCCAGCAGCGGGGAGAAGCGTGAGTCG
CGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCCTGGAAGACAAAAGGAGAGCAGAGAAGAT

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FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAGCAGCCACAGAGCAACCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCACCGGCCCCCTGGCAGCGCCCCGAGACCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCAAGGGTTCAGGAAAAGCCGACAGCCCCGGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAAGTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGAGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCACGCCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGAGTCTCCAAGTCTCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGTGTCCAGAAGAAGAAGCCAGGCGACGCATCCTCCCTCCCA
GACGCAGGGCTGTCCCCGGGCTCTCAGGTGCACTCTAAATCCACGTTTAAAGAGGCTTTTCTGCATAAAACCAAG
GATAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGCTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAAGGGAAGAAGAACCAGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGGAATCG
GTGTTCCGCCAGATACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCTGTCTCAACAAGATAAATGACCTC
CGTTCACAGAAGACGCCATTGAGAGCTTGTATTATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAACGATG
TACTCTGTCCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACCAGATCGTCTGTCAGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGCTCCTCAACCTCTTCCAGTCACTGCTAGATGAGTTCACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAACGGGCACGTGTTCCGCCAGTACCAGGTTAGCATCCCGCAGTCTGCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTCAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCCTCGGTGCCCATCGTGTGGAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCGCAGCAGTCAAGCTGGAGAACTTCCCCATCCACGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCGAGCCCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCGAGCCGTCGAGCTGCCGGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCAGAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTGGGGCGCTGGCCATTATCTTC
GCACCTGCCTCCTGCGCTGCCCTGACAACTCGGACCCGCTGACCAGCATGAAGGACGTCTCAAGATCACCACG
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGGAGGAGATCAGCCAAGTGGAGGCT
GCAGAGAGTATCGCCTTCCGCAGGCTTTCGCTCCTGGCAGAAAATGCTCCATGGCCTCTCAAAGTGGGGTTTTTCG
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGACGCCGGCGCGATGAGGACCGGAAAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATACCTACCGGTGCCGGAGCTGGACCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAG
ACGTCGGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGGCTCGGAAGGGCCCCCTGCGCCTGCT
CTCCCTTGCCCCGGCGCGCCACCCGAGCCCCCTCCCCACCGTGGCCGCCCTCCACGACGAAGGCCGTGCTCC
TTCGTAACGGTCAGAGTGAAGACCCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCCACAGGC
CTGCCCTCCCACCTGCCTGCTGCTGGGCACCGGGTGCCGGGAGGCGGCTGCCCCAGTGGCGCGCGGGAGCCACT
GCCCCCGCGCCGACAGATACATTCCGTGTACATACGCCCCGGGCGAGACCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCAACGTACTGCCTGCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAGTCTGCATGTCGAGGACGGCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTCGGCCCTCAGAGAAGGATCCAGAATCAAAGCTCAAGAGTGACGTG
AGGTGGGCACCGCCCCAAGTGCAGAGTCAAGGCAGGAGAGGCGGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCCTCACATCTCCCACTCCCCCTTTTTG
TACGTTAACTGTTTCTTTGTACGTGGTTTACGTAACTTTAACTGTAACAGCCTTAATGGAAGACCAAAATGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAAAGCTGCCCGTCTCCCTTATAACCTGGAGCTGAGCTGTGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCTGCTGTGTTGGCTTGGGTGGCCAATGGGCTGGG
ACCCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCGTGCTCTCTGACACATGTCTCCGGGGGCGAGCCA
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTCACGTGCCAGGGAGACTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

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FIGURE 5325C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGCCCCCGCACA
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

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FIGURE 5326

CCTGATCAGCGGGGCGGGGGCGGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG
CTGATTAGAGGAGGTTCAAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGAAGTGGCAGAGCCCAGCAGC
CCCCTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCGCACTCGCTCCAATCCTGAAGGG
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAGCCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCCGCCAGCCCCCTGAGGTCCAA
ATTCGGACACCAAGGGTCAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCACTGCCA
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTTCGTGCGG
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCACTGGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG
GAAGGACTTTTCAGCCTCATCCAGCAGAAAAGTGAAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCCGCCA
TATGTGGTCCGCACCATCCTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG
AAAATGTTCCAGTGCCCATATTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG
ATGAGTTGGAAGATATGTTTGCCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC
TGGCTGGGCCAGCCCTGGAGTTGCACAACCTGCATGGCGAAACTGTTGGCCCACCCCTGCAGCGGCCTTGCCAGA
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG
TACATCTGCACCTTCTTGTCAGGAAGTCCTTGGCCTAAAGCCTTGTTTCTCAAACCTGGGTTCTTGGGACCTC
CGGGGTGGGGGGGTTCCAGGAGGCACGTAGGGTACCTTGCAAGGTCTAGGAGGGAAACCCAGGATTCCAGGAGG
GATCCAGGAACGTGGGCACCCATTTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTATGGATAATTT
TTGTTCTCCCTGTGTGATTTTGGCATCAAAATAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5327

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEGEAASADDGSLNTSGAGPKSWQV
PPPAPEVQIRTPRVNCPEKVIIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQKTELPTENVQTIPPPYVVRTILVYSRPPCQPQ
FSLTEPMKKMFQCPYFFFDVVYIHNGTEEKEEEMSWKICLPSWAAWIPRVPATSMRWHWLGQPWSCTTAWRNCWP
TPCSGLARAMLPTACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWWPVDLRGGGVPGGT

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FIGURE 5328

GTGGAATTCATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG
GCCAACAGCGAGGCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTGCAATGTCACCCATCTCCTGCAACAA
GAGCTGACCGAGGCCAGAAGGGCTTTCAGGATGTGGAGGCCAGGCCGCCACCTGCAACCACACTGTGATGGCC
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACAGGTCTTAAGCGTGAGA
ATCGCGGACAAGAAGTACTACCCAGCTCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG
CTGGGCCTCAGCGCTCTGCTGCAGTTGAGATCCAGGAAGCTGGCACATCTTGAAGGTCCGTCTGCTCGGCTTT
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT
TGACCCAGGGCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCTGAGATTG
GGCATGGGGTGCAGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTTGCGGGGGGGGTGCTTTTTTC
TGGGGTCTTTGAGCTCCAAAAATAAACACTTCCTTTGAGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 5329

MASTSYDYCRVPMEDGDKRCKLLLGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGITTLNHLQDASAEVERLRRENQVLSVRIAD
KKYYPSSQDSSSAAPQLLIVLLGLSALLQ

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FIGURE 5330

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTTCGGTCGCGAGCGCTGCCGTCCG
GAGGCGCTCCGAGGTTTCGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCCGCGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCCTGGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCGCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGGTCGAGGCTGCGTGGTGATGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAAACCCCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCTCTGGCAA
TAAACACTACCCGGTTCTCGCC

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FIGURE 5331

GCTTCCTCCTCCCCGCCGCCGCCCTCGCCATGGCCGCGCCGCCGCCCGGGCCTCATCTCGGTGTTCTCGAGTTCCC
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCAGCGCGCAGCATGCTGCCTGGCAGGGGGCCCGCCCCGTT
TCGCGCTCGGCCTGTTCGGGCGGGAGCCTCGTCTCGATGCTAGCCGCGAGCTACCCGCCCGCTCGCCCCTGCCG
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA
CGTACGGCCTCTACCGGGTGAGAGCTACGGGGCGCCGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCCACTGTCTGCACCTCGGGCTACGGGGGCCA
CTGGGTATCATGCCAAGAGGGCCGTGCCCACTGCCTGCACCTCGGCTACGTGGGTGCTGGGGGTATGCCAAGA
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGCCACTGGGGGTATGCCGAGATGGTCACGCCCACTGCCTG
CACCTCGACTACGGGGGCCGCTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCTACAGTGGGT
CCCGCAGGACCTCACTGCGCCCTCTGCCTTTATCTAGGCAGGGCTAGAAATGGTCTACTTGCAGTCCGTCTTCT
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCCTGGAAGGGAATCCGAGTGGCCCATGTCAA
CGATGCCCATAACTCAGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCTG
ATCTCTAACCCACGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTT
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTAAAGACAGGGTAAGTGGGCTT
GGAGGAGCCTTGGCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT
TTGTGGGTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACCCAGCC
TATGAGATGTTACTCATTTTACAGATGGAGAACTGAGGCCAGAAGAGGTGAGCTTACCTGCCCAAGGCATCT
AGTGACCAGAGGGGCAGCCAGGCTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC
TTCCTGTGTGTTTTTCCAAGAGCATCATTAAAAAGTTTTGGCCGGGTGCGGTGGCTCACGCGTGTAATCCAGC
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTGAGGATTTGAGACCAGCCTGGCCAACATGGCAAAACTC
TGCTCTACTA

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FIGURE 5332

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCGGGGCTCCTCACCTACGTCTCTGGAGGAGCTCGAAAGAGGCATCCGGTCTTGGGATGTCGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCTGGTCTCTCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG
ACGGGGGAGCTGCTGTACAGACAGGGGGCTTCTCGCCTCACCACCTTCTCCAGGTCTGAAGGACAGAGAGATC
CGGGACATCTTGGCCACCACGCCCCACCTGTGCAGCGGCCATACTACCATCACCTGCCCCACCTTCCGTGAC
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGGCTGAACCCCCCGGCG
CAGCTGCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCGACCTCCGGGGCTTCTCAGGCTGGGCCGGCCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCCTTCTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGGCGCACCTGGACCGCTGGATGCCGTGCTGGTGGTACCACCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCTGCGAGGCCGCGCTGCGGGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCTGGCGCAGCTGGGCATCACGCCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTGCTCTTCGAGAAGATGGGCGTGGGCCGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGGCGCCGAGCGCACGCTGCCTCTGTGTGCGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGCCTGTCTTCCCCGGTTCACCCCGCCCGCTGCCTCCTGGACGGCCTGGTCCGCCTGCAG
CACTTGAGTTCTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCTGGCCACCCACCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCCGAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCAAGACCCCCCGGGAG
TTGAGGAAGACCCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGGAGGTGCGCCGGGCGAGCCTCTTCTGTGCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAAGCCCCGCAAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCAGTGCAGCCTGCGGC
TCTCCGGCTCCAGCTGGTGGCCACGCCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCCTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTTCCCCTGAGTCCACCGGAGCCCCGCAGAG
GGCAGCGAGCGGCTGTGCTGAGCCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCCTACCCACAGTGACCACA
CCCACGGTGACCACGCCCTCACTACCCGCAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTCTG
GTGTCTTTGAGCAGGTGTGCGCCATCCGCCCCACCAAGTGGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGCGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCTGGTGTACCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGCAGCTCGAATGACAGCAGTGGCCGGTACAGGAACGGGCA
GGTGGGCTGGGGCCGAGGAGACGCCACCCACATCGGTGAGGAGTCCCTGCCACCCCTGTCTGACTCGGATCC
GTGCCCCGTGGCCCCGGTGGCGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCCTTG
CCTGACCCCTCAAGGTCCCCCACCCTGCTGACCCATCCAGCATCTGCATGGTGGACCCGAGATGCTGCC
CCCCAAGACAGCACGGCAAACGGAGAAGCTCAGCCGACCCGGAAGCCCCCTGGCCCGCCCCAACTCACGCGCTGC
CGCCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGCTGGTGGGGACCGTGCCAGCCGACCACT
CAGTGCCCGGAGTGAAGCCAGTGAGAAGGGAGGCCGGGCACCCCTGTCCAGAAAGTCTCAACCCCAAGACTGC
CACTCGAGGCCCCGTGGGGTCCAGCCAGCAGCGGCCCGGGGTGTCAGCCACCCACCCAAGTCCCCGGTCTACCT
GGACCTGGCCTACCTGCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCCAGCGCGTGCAGCGCCT
CTGCTACGTATCAGTGGCCAGGACAGCGCAAGGAGGAAGGCATGCGGGCGCTCCTGGACGCGCTACTGGCCAG
CAAGCAGCATTTGGACCGTGACCTGCAGGTGACCTGATCCCCACTTTCGACTCGGTGGCCATGCATACGTGGTA
CGCAGAGACGCACGCCCCGACAGGCGCTGGGCATCACGGTGTGGGCAGCAACAGCATGGTGTCCATGCAGGA
TGACGCCTTCCCGGCTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCCGCTG
TCCCTAGATTAGCCACATCAGAAATAAAGTGTGACTACACTTG

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FIGURE 5333

MAAVAGSGAAAAPSSILLVVGSEFGSPGLLTYVLEELERGISWDVDPGVCNLDEQLKVFVSRHSATFSSIVKGQ
RSLHHRGDNLETILVLLNPSDKSLYDELRLNLLDPASHKLLVLAGLCLEETGELLQTGGFSPHHFLQVLKDREIR
DILATTPFPVQPPILTIITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSGLCEFLYVAESLEPPSPFE
LLEPPTSGGFLRLGRPCCYIFPGGLGDAAFFAVNGFTVLVNGGSNPKSSFVKLVRLDRVDAVLVTHPGADSLPG
LNSLLRRKLAERSEVAAGGGSWDDRLRLISPNLGVVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG
PVPKPTVLFEKMGVGRIDMYVLHPPSAGAERTLASVCALLVWHPAGPGKEKVVRLVFPGCTPPACLLDGLVRLQH
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKEKEAKTPREL
RKDPKPSVSRTQPREVRRRAASSVPNLKKTNQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRCEASPPSAACGS
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPTSPESHRSAPGSERLSLSPLRGGEAGPDASPTVTTP
TVTTPSLPAEVGSPHSTEVDLSVSVFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVLCLVSPCEFEHRKA
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTSSESLEPTLSDSDPVPLAPGAADSDEDETEGFGVPRHDPLP
DPLKVPFPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNGACWWGPCQPTTQ
CPE

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FIGURE 5334

CTTTTGGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCACCCCAAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCTG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGCACCGCGCCCGAGCCCACTCCATTTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCACGACTCCAAGATCAAGTTCCTGCCCCACCGGGTCCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 5335

MKASGTLREYKVVGRCLPTPKCHTPPLYMRIFAPNHVVAKS RFWYFVSQ LKKMKSSGEIVYCGQVFEKSPLRV
KNFGIWLRYDSRSGTHNMYREYDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRRPAVKQFHDSKI
KFPLPHRVLRRQHKPRETTKRPNTEF

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FIGURE 5336

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA
CGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTACGAC
TCTGCACGCCCTTAGGCCAGGTGAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCTCCCGCCAGAGGTCCCTGCCCGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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FIGURE 5337

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTCTGGGCCCTCTGCCACCTCATCTGTAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTTGGGATATACTTATACTAAAAAAATTATTCAATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTCATAT
GTTTGAACTTAATCCTCAAAGCAGTCCTTTCAACCTGTCAACCTGTCGGCGCGGCTCTGGTGCAGTGGCGGC
GGCTCCTGTTCTGCCGAGCTCTCTCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCCGCCATGGCTTT
ACTTACTGCGGCCGCCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCCAGCATGCCAGTGC
TTCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCAC
CATGCTGGACAACCTTCCACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCCAAGCATATGCACGGGGTATCAGCCGAACCCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAAGCTACCTTGTGTGCGCAGGAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTACCAACATGTTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACAGCCACTTGG
TGGCAGTGGCCTTTTACAGCCCTTACCTGTCTTTGCAGCAGCCATGAACGGGCTGGCAGGGCCTCTCCATGGAC
TGGCAAATCAGGAAGTGTCTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTGAGGAGAGTTTGTCTGAAACACCTGCCAATGACCCCATGTTAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCCCTGTTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGGAGTGGGGGAAAGTGAATACCA
AAGTGAGGAAGCCTAAATAAAAAGTATACTTTTGTTCAGGGGGCCTTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTGAGGTTAAATATAAATTAAGACTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCATCACAGGCATGGTCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACCTCGGAGCTTTAGCTTCTCTCTGCCAAGCCCTCAATAAGCCAGCAAAACCAG
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTAACTATCCAATTAAGGT
TAAAGGCATGGCATTGTTGTGACTGGCACCAATGTTGATTTTTTTTTTAACTATCCAATTAAGGT
CTGGGAGTGTCTGTTTCCCATTACTTTAATACTACCCCCCTCCAGACTTCTACACCTGTTTACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAATAAGTTTTTACTTCCAACAGAATAACAAGCCACTACCTTCTGACCTCCCCAC
CCCCCACCACCCCAAGCTTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTAAGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCTGCCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTTCTCCCTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAGCCCCATT
TGCACAGGTTTTTCACTCACTCAGATGCTCTACTTCTTTTCTTTGAGAAAGATTGAGATACGCTCCTGCTGTG
CCCCATCTTTCTCCAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCAGAACACACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTCTGTATAAAATGCAAAATAAAT
GTTTTAATTAAC

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FIGURE 5338A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAAACGCTCGGCTGTCTCGGGGGCACCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGAAACACTCGGGTCCCCCTTACCTCAGGCTCCGCCCTCGGCCTCGGTTTC
ATCCGCCCGGCTCGAATGCGCTCGGGCATTTCGCCCGGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGGGCGGGCG
AGGCGGGGATCCCGCGGCTGCGGCGACGGTGGCCGCGGTGGAGCCACGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGGCGGGTGGCGGCCGCGACCAGGTGCGCGTCTCAGCTGGCCGAGCAIGGTGGCAGCCTGCACCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCCACTGACCTGACACCACACCACAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAGGGTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCTGTGGTGCCTGTGACTGCTGGAGATAGAGGTCCAGCACCCCAAGCCAACCCAGCGGACCCTCCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCCGCCGGGAGCGGCCGGAGGACCTGGAGC
TGCTGCCCCGCGACGTGCTGGTAGTGAGCCGGGCGGCCITGACGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCCACAGAGCGTGGGCTGGATGCCCGGCCCTAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCTTGGGGCCCGTGGCCCTGGCCCGGCCCGGCCCTCGCCACGGGGCCCCCGCCACTGCCCCGCCAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCCGACTTGCCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCTGTGCTGGCACTGCCCCGCGCCGCTCGTGACCCCCGAGGCCTCGGCCGAGGCGCGCCGGGCCCTGCGGG
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACTGGGCCCGCTGGCCAGCCGCGCCCCGGCCCTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT
TTGGGCCGCTGCTGCTGCGCGCGCGCCGCGCCGCTCTCGCCCGGCCAGGGGGCGCTCCCGACGGGAGTGAGC
CCAGCCCTGACTTCCCGGCGCTGCTGGTGGAGAAGCTGCTTCAGGAACACTTGGGAAGAGCAGGAGGTGCGCCCC
CAGCGCTGCCGCTAAACCCCCCAAGGCAAGCCGGCCTCCACAGTCTTGGCCAATGGAGGGAGCCCAACCTCCC
TGCAGGATGCTGAGTGGTACTTGGGGGACATTTCAAGGGAGGAGGTGAACGAGAAACTCCGGGACACTCCCGATG
GCACCTTCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCTCAGGAAGGCGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCACTATGGCTTCTCAGAGCCACTACCTTCTGCTCCGTTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCCACTACATGCCAAGCTGGACACACGGCTCCTCTACCTTG
TGTCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCAGCTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCTGCTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACAGTACCTCGTGTGGCTCACCCAGAAAGGCGCCCGGCAGAGAAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGCAGGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGTACGCTGCTCCGTGGTAGTGGACGGCGACCAAGCACTGCGTCACTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCACTACCAGCACGCCT
CGCTGGTGCAGCACAACGACGCGCTCACCGTCAACCTGGCGCACCCAGTGCAGCGCCCCGGGGCCCCGGCCCCG
CTGCCGCCGCTGAGCACCGAGGACCCGCCCAAGCAGAGCCGCCCTGGGCCCGTCTGCGCCGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGTCTCTATTCTCCGGCTCTGGCTCTTGTTTGGGGTTCT
CTACCCCTCTTCTCTTCTTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCCTTTTCTCTGTCTTCTTGG
CCCCTGTCTCTCTCCATGTTGGGGGTCTTAACCCCCACCCCATATCTACGTGTCTCCGGGCAATTGCCCTCTC
CATGGCTCTGGTCAACCTGACCCTCTGCCCTGCCACCGCAGGTCCCCGGGGTCCCGGAAGCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGCCCCCTGGGCTGCGCGGCCCCAGCCTGGGCACCTGATTTTTAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTCACTCTGTGCTTCCGAGAACCTCGGCCGTGACATTGCGGGCCGGGCGGGA

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FIGURE 5338B

CCCGCCCCACAGACTCCAACTTCCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAATAATTAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTGCGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAATTAGCCGGGCGTGGTGGCGGCCGCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAAACAGAGGGAGACTCCTCCGTCTCAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCCCTCTTTCCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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FIGURE 5339

GGACCGCCGCTGGTTAAAGGCGCTTATTTCCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCTGCTGCGAT
GACCCCTGTCGCCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGCGGTGCAGGC
GTCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCACTTAAGTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCCCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCTGCGTGTGGATGAACCTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCCTGCAGCTCTACGCCCCAGGGCTGTCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCCCTTGGGAAGATCAGACCCAGCTCCTTACCCTTGCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTGCTTCAAGTG
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCCACCCCA
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAACTAGTTTAAT

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FIGURE 5340

MTLSPLLLFLPPLLLLLDVPTAAVQASPLQALDFFGNGPVPVNYKTGNLYLRGPLKKSNAPLVNVTLYYEALCGGC
RAFLIRELFPTWLLVMEILNVTLVPYGNAEQNVSGRWEFKCQHGECKFNKVEACVLDELDMEFLAFTIVCME
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLTLV
CQLYQGKKPDVCPSSSTSSLRVCFK

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FIGURE 5341

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCC GCGCCGTCCCTCCGCCTGGAATGCGCCTCCCGCCCCAACCCAACCCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTCÖGGGGCAGGGCGTGTCCGTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCACCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCTTGACAAGAAACAAAAGCAAAATCGTCCCATTCCCAGTGGATTGG
ATGAAAAC TGAAATAAAATCAGGTACAAC TCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATTGA

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FIGURE 5342

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNTLCLLRLPSLRPGPDPSGAGRVRVWLL
APPCPQSVSGEMAQYLEKPRVCGRMQAKPTHHTALRSGITSLITRGAAAEIKVKMQSPGPSPSVAPTSSATFIA
LGTFRIKREFLDKKQKQNRPIQWIWMKTGNKIRYNSKRTLEKNQAGSIRNCT

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FIGURE 5343

GCAACCTGCACAGCCATGCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTTGCTGGTG
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTCTGAACACCGACCTCGTCCCGGCCCTTCCCGAGGGGCTCCCGAGGCCTCCCGCCTT
GGATCCGGCGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC
AGCCTTGCAAGACCCCGAGGCGCCGCGCTGCACCTGCGACTGTGCGCGCCGCGCTCGCAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGTCTGCACAGGTCGCGCGTCGCTG
GAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG
AGCCAGTTCCGGGCGGCAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAGACCGACACCGGGGTGTCGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGTCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAAGTGTGTATTTATTTAAACTCTGGTGATAAAAAATAAGCTGTCTGAACTGTT

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FIGURE 5344

MPGQELRTVNGSQMLLVLLVLSWLPHGGLSLAEASRASFPGPSELHSEDSRFRELKRYEDLLTRLRANQSWED
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRLFRLSPTASRSWDVTRPLRRQLSLARP
QAPALHLRLSPPPSQSDQLLAESSARPQLELHLRPQAARGRRRARARNGDHCPLGPGRCCLHTVRASLEDLGW
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDIVPAPCCVPASYNPMVLIQKTDGTGVSQTYYDDL
LAKDCHCI

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FIGURE 5345

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCGCTGCCGCCGCCGCCGCCGCGCGCTCTGGAG
CTCCCCCGCGCGGACGATGCCCTGCCGTGCCCGCCTGGGGCTCGGGGCGGGTGAGGCCCGGGGCGCGGGGIAGCTAT
GGCGACGGCAAGCGGGCCCGCGGCGCCGCTGACAGGTGTGGGCCCCGGCGGGCGGGCGTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTCGGCCGTGCCCTCCGACAGCCAGGCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCAGAAGTCAGCCAGACCTTCTGTCTGAGATCCGATGGGAGAAGAACATCAC
GCTGGGGGAGCCCCCTGGGTTCCTGCACTCCTGGTGGTGCCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCCTTCCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAACCCCAACGCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTACCCGCGCTT
CCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCACGAGCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAAACTCGATCCC
CTACTCCTCCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCGGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTTGCCGAAGAGTTCCCCCGGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGCGGAGATGGCGGCCGCCGGGACCTTCTGACCCGTTCCCGAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTGTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCCAG
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTCACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTTCTGTATG
GACCCCTCCTGCCATTTGTATTTTGTCCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTTGGTTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5346

MYAKGGKGSAPVSDSQAREKLALYVVEYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAP
DRREACEHSGEAKAFQDYSAAAAPSPVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPAPMMGPHGQPFMSF
RFPGGPRPTLRMP SQPPAGLPGSQPLLPGAMEPSAPRAQGHPSMGGPMQRVTPFRGMASVGPQSYGGGMRPPPSL
AGPGLPAMNMGPVGRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTFIMPSPGDSTNSSENMYTIMNPIGQGA
GRANFPLGPGPEGPMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTTPRDDGEMAAAGTFLHPPFSE
SYSPGMTMSV

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FIGURE 5347

CGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG
GACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC
ACTGACATGGACCCCGAGCCGAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCCTCTTCAAGGCGCCACTA
GTGCCGCCCGGCGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC
GTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCAGGGCCAGCCTCAAGCGAGTT
GGACCCGTGGCTGCCACCTACCCATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT
GATGCCAATGGGCATCTGCAAGAGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG
GGTCCATACAGAAAAGAACGTCTCTGAGGTCTTTCGCTTTTAAATAAAATGGTAAGAGTCTTTCGTGTGGGGCCT
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCGAGGTGTGACCTCAGCCCCCTCGCCCTGAGCAGG
GGCGCTGGGCAGAAGCCTAGGCCCGCAGAGAGGCCCCGGGGCTGCCGCCCCATCACACGCTCATGGTCATCCCTGG
CGAGTACTGCGGAGAGAGGAGGGGGCAGCGCGCAGGGGCCGAGTTCAGCTCCGGAAGAGGCTGGGACCCGCCCC
AGGGACAATGGGGGACAGGGCAGGGCTGGGTCTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGTCCCGGGGTGGGGCGGATGGGATCGGGACGGTGAAATAGGAG
CGGGAGGTGTTGGGGGTGGGGAGAGGTTGAGGAGAGG

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FIGURE 5348

MLGGTNTLV LHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLVPPGSPVVNA
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVGPVAATYPMLNKKGVPVPAATNGCTGDANGHLQEGP
PKEPFSLGQNTNGRKGPYRKERL

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FIGURE 5349

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTGGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTGTGCGGCCTCGAACCGGGTCTCCAGACGTTGGGCCCTCCCTCCCAGCGCGGG
AGAGGCGGGGAAGGGGCGGGGCGGGGAGGGGCGCGAGCGCTTTTCTCCGGAGGTGCGCGCGCCGAGAGCCCGC
GCTGTCCGCCCGCTGCCTGAGTCGACTCTGCGCCGCCCGCGCGATGGAGGCCGCCGCCAGTTCTTCGTGCGA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACAGTACCGGACGACGCGCGTCAGCCGCGA
GGGTGGCGTTTCTCAAGGTGCACCCACGTCCACGCGCTTCACCTTCCGGACCGCCCGCAGGTGCCCGGCTCGG
GGTCATGCTTGTGCGCTGGGGCGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCCTGAGCCT
GGGCTTGACGCCGAGGGCCAGGAGGTGTTTCGTACCTTCAGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCGAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCCCGGCTTCTGTTTACATCCCCGAATTTCATCGC
GGCCAACAGAGCGCGCGCGGACAACCTCATCCAGGCTCGCGTGCAGCAGCTGGAGCAGATCCGCAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCTCAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCCTCAATGGGTCTCCGCAGAACCCCTGGT
GCCCGGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCTTCATTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACCT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCGGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGCTCTATACGCCCGGCGAAGAGCCTGACCACTGCGTGGTCATCAAGTA
TGTCCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGCTGCACAACACGTGTGAGGACTCGCTGCTGGCCGACCCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCCGAGCCGACACCTTCCACCCCGTGCTGTCCCTGCT
CAGCTTCCTCTTCAAGGCGCCACTAGTGCCGCCCGGACGCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACC
CGTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCCACCACCTGAGG
CCCCGGTACACAGTTTCTCGGCTCTTCTCCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTTCTTGGGGCCTGTGACCTGA

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FIGURE 5350

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCTTGCTGCCATGGAGCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCCTCTGGGTGACTGTGACGTTCATCCAGGCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCGTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCCACTACCA
GCGGGCGGACTTCGTCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGTGAAGTGTCTGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCCGCAAGGGCAAGGTGCTGGCCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTACCGGAAAATGCTGGGCAACCCAGCCGGCTGCCTGCTAAGTGGCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAACTGACCACTAGGTGGCTGCCACCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTAGGGGAGCAAGGATTGGGGGT
CGTGCAGCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCCAGAGGGAGGGGGCCCTCATTCTCTC
AGACCCAGTTTTCCCCACCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCTCTCAA
CAGGCCTGGGGGAGCCCTTCCCCTGCCTAGTCCCCGCCTGAGTGCCAGCCCCCACCCTGCGCCCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCACCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5351

MGQPPAEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLPVGPFGSSRPVKQVTVHLQTSLE
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCLEVTIKTAVDG
PDLEMLTGQERVALANRRKRECGNAHYQRADFVLAANSYDLAIKAITSSAKVDMTFEEEEAQLLQLKVKCLNNLAAS
QLKLDHYRAALRSCSLVLEHQPDNIKALFRKGKVLAAQGEYSEAIPIIRAALKLEPSNKTIIHAELSKLVKKHAAQ
RSTETALYRKMLGNPSRLPAKCPGKGAWSSIPWKWLFGATAVALGGVALSVVIAARN

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FIGURE 5352

CTTGCGCAGGCTGGAAGAGGAGCTGGTGAGAAGACAGCGAAATGSCGCCTCCGGCCCCCGGCCCGGCTCCGGC
GGCTCCGGGGAGGTAGACGAGCTGTTCCGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAAC
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCTGTATAGAGCGTACCTG
GCGCAGAGGAAGTTTCGGTGTGGTCTTGATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATG
TTTGCTGACTACCTCGCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC
CTGCGTGCCTGCACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC
CTGGACCTCGCCCGGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCCTACCCAGCTCGCCACT
GCCTGGGTGAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG
TGCTCGCCCAACCCTGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCAG
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCAGCTGAAGGATGCCCACAGGTCCCATCCCTTC
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCACAGCGCCTGAGGCTGG
CCCAGAGCTGTCAGGACCATGAAGCCAGGACAGAGGCCAGGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA
CCTGCATCCCTCTGGGGGCAGGAGCCACCCCCAGCACCCCATCTGTAAATAAATATCTCAACTCCAAAAAA
AAAAA

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FIGURE 5353

MAPPAPGPASGGSGEVDELFDVKNAFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNITFLLMAASIYLDQNPDAALRALHQGDSLECTA
MTVQILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAAC
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPEVTNRYLSQLKDAHRSHFFIKEYQAKENDFDRL
VLQYAPSA

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FIGURE 5354

GACATGTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG
AACGAATCCCTGTTGTCTTAAGTGGCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG
ACCTCCCAGGGCCACTGTTTCTCCACCCTGCACTTACTTCACCAGCTGGAGTGAAGGCAGGGAACCTGGGTCC
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT
GGTTTTGGTTTTGATTTTGTCTTGTAGATACGGTCTTGCTCTGTCGTTACGCCCTGGCATACAGTGGCACAATC
TTGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGTGATCATCCACCTCAGCCTCCCGAATAGCTGGGACTACA
GGCAGCATCACCATGCCTGGCTAATTTGTATATTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCCGGCCCCATTGGTAATTGTAACACCT
TAGGATGACAACATTACAGTACCAACGCTACGACAAGTGGCAGTGTATACACCCTTGTTGTCTGGAGCCTCAG
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCTGCATGATCCCTGTAAATGGTCCCTCAGCAG
GGGAAACAGACTCAGACCTGAAGTCACTTGTCTGTTGGACCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGT
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACACGGGCCCTGGGCAGACAGCCCCAGATGCGCGTGGA
TGCTTACGGGTGCAGAGCCACGTTTGAACCCAGAAGAACCAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC
CTTCTCTTTTTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG
ACCTGTGCCCTCGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG
CCATCTTCAGGGTGCAGCCAGCACCTGGGCTCTCAGGGAAGTGGGGCAGCTGCCCTGGCAGTGGGGGTGCCCCA
GGGCTCCCATCTTCTGCACGGCCCTCGGCACCCAGGCCGACCTCTGCTAGAAGACGTGGCCTTGAAGCCAC
AGGGTTGATGGGTATGGTCAGGAGTCCCAGCTGGGCCACCAGCCTCCTCAGGAAGGCGGGTGAGGTTGGTGTG
AGACTGACGGTGCCCTCCTCATGTCCCTTGAGAGCGCCCCACCCACATCTCCCGGCTCGGGTCTTGCTGGCC
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTGGGACAGCTCGATGCTCGGCCTGCTGCTGCTCT
GCACCCCCAGGGCCTGGCTCACCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCTCTGAGGTCCCACAGA
GGCCACCCCAGCTGTGGGTGCTGAGCATCTCTGCTTGCAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG
AGCAGGAGCGTGGACGTGACCAACACCACCTTCCTGCTCATGGCCGCTCCATCTATCTCCACGACCAGAACCCG
GATGCCGCCCTGCGTGCCTGCACACAGGGGGACAGCCTGGAGTGGTGGTGGCCTCCCTGCTCTGGGGCCAGCCC
AGGGAGGCAAGTGGCCCTGCCACATCTCCAGGCTGCGCACGGCCTCGCTGGCTGTGTCATGGGAGCAGAGAAA
GGTGGTGTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCTGCCAGTGTGGGAGGCACTCCCATC
TGGCACCAGGCTGCAGATCCAAGGACACGGTGGCCAGGCTGCAACCCTCTGTTCCCAAGGGCAGAGCAGAAAGC
GGCTTTGTCTGCTCGGTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC
TCAGGCCTCCCCGGGCCCCCATACCGGCCCTCCTCCAGGGCCCTCTGGGGTTGGGGTGTGAAGCCCTGCAAGG
TTGGTGGCCCCCTCCACCCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGCTCAGTTC
TTCCCCGTGAGCTGTCCCTGCAGTGCCTTCCACTGTGAGTTGCAAGCTGGGCATTTGATGGTGTGCTGTTGGA
TCTGCTCCCATCCACCTCCATCCACAGAGGGCTTAGAATTGCAGGGCGAGCCAGGCATGGTGACATGCACCTAT
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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FIGURE 5355

GCAAAACATTTCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTGCGG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTTCGCGTTCGTCCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCGGGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCGCGGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCATGGGGCCAGAGGAGGCAGTGAAAGAGGCGGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTCAGCATACCTCACCCTGCTTCTGCGACCAG
TGCAAACAGGACAAGGCCTGCCGCTTCCTCGCGGCCAGAAAGGGGCGCTACCCCATCATCTTCACTGCTTGAAG
CTGGCCACTGCAGGTGACCAGGGCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGTGTGACTGATGGACAGCCA
GACCTCCTGGATGCCCAGGGCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTCACGCTTGCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAGCTGGC
GTGCTGCCCTCTGCTGACTGGTGCCATCACCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCCACAACCATGCCAAGATGATTGTG
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACCAAAGCGTTCTGGATAACCCCTGGCATCCTGAGCGAG
CTCTGTGGAACCTGTCCCGCTGGCCATTGCAACGAGTTCTGCCAGGAGGTGTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTTCAGGAGCTCGTGAAG
CAAGTGCTGAGCACCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCCTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGCAATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATCATGCAGGCCCGATCTGCCCACCGTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGTCATGTGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCAGGCCAGTCTGGGCGTGAATCTGGGTGAGTCTGTGACTCAGGAATGG
GGGTAGATCCATGTCTCCACTGTCCCCATTAGTTCTGTCCCTTCACAATGAGAAGTGTCTTCTGGCAGGCCC
TAGGTAAAGGGTCGGGGGAGGGGGAGCCTTGTAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCCAG
CCACTTCTGGGTCCCAGCCAGCAGCAGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCTCTGCTCCTTG
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGCTGTCTCTGGGTCCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5356

MVSKRIAQETFDAAVRENIEEFAMGPPEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEP THDILQMLSDLQE
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSINALSVLTDGQPDLLDA
QGLQLLVATLTQNADEADLTCSGIRCVRHACLKHEQNRQDLVKAGVLP LLTGAITHHGHHTDVVREACWALRVMT
FDDDIRVPFGHAHNHAKMIVQENKGLKVLIETKAFLDNPGILSEL CGTILSR LAIRNEFCQEVVDLGGLSILVSL
LADCNDHQMRDQSGVQELVKQVLSLRAIAGNDDVKDAIVRAGGTESIVAAMTQHLTSPQVCEQSCAALCF LALR
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAFSKPILDLGAEALIMOARS AHRDCEDVA
KAALRDLGCHVELRELWTGQRGNLAP

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FIGURE 5357

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCATGGCGGTCTCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGT
CCGATACAAGCACCCGTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCAGCTGGAGACCTGCCC
CCTCACGACCGTGGATGCCCTGGTCCTGCGCTTCTTCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTTCTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCTCGAGCTGGGCTGGAGCCTGGTCTGGCCAGCATGACCCAGAATTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCCAGACCCACCGGGACGCACTGACCATGTGCGGAGGACAG
ACCCATGCTGCAGTTCTCTCTGCACACCAGCTTCTGTCTCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCTTGACACCAGCCGCCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGTCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGCCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAAGCTTGAGTACCTGACGCCGCTCATCTCACCCTCAACTG
CACACTTCTGTCAAGACGCTGGGAGGCTATTCCCTGGGGCCTGGGCCCAGCTCCTCTACTATCCCCGACCCATC
CTCAGCCAGCGCTGCCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCTCTTCTCCTCCGTGGCGTCTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCCTGCAGACCCTCCTGGGGC
CCTGAGGTCTGTTCTTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGGCCCCCGTGTCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCTGGGCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

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FIGURE 5358

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCCTTGAGAGACG
AGTTGGGGGAGTCTCCACGCATTACCCACTCGGGCCGCAAAACTCCCTTCTTTAGCCCTCTGCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCACTCTCACCACCGGCAGCGAGGGAACGAGGTGTC
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTG
GGCCTCCGCCTTTGGAGAGATTGAGACCGTTGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATG
CGTTGAGGCCTTGCTGGCCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGC
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT
GCCCCGCTGACCCTGAGTGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG
GGAAACCCAGAAGTGAAGTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATA
AACCTTCTGTGCAGAATGA

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FIGURE 5359

MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQGSSSLKHSTTLNR
QRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV
GLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK
LFQSNLVPADPE

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FIGURE 5360

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTCAGAGGGCCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCCTTGAGAGACG
AGTTGGGGGAGTCTCCACGCAATTACCCACTCGGGCCGCAAAAATCCCTTCTTTAGCCCTCTGCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTTCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCCTCTCACCAACCGGCAGCGAGGGAACGAGGT
GTCAGCTCTGCCGGCCACCCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA
GGAGCATTTCGGGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTC
CGCCTTTGGAGAGATTGAGACCGTTTCGCTTCCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAGAGCG
AGAGAGCGCCCTGTCTGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTTGAAATGCGTTGA
GGCCTTGCTGGCCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC
CCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC
TGACCCTGAGTGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT
CTGTGCAGAAATGA

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FIGURE 5361

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTILTN
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADP
HILAKERESALSLASTGGYTDIVGLLLRDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE

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FIGURE 5362

GGTCCGACATTTCGTAGCAGCAGCTGCCCCCAAGCATCAGTGTACCCAGCCCAGTGACTGACGTGGAGCCCTGGG
CTTCGCGTAGAGTCACCTAGACGGGGCGAAAACGGGAAAAGGGGCCTTAACTGGGGCACCTGGCTCCTTTGAGAG
CTCGGAGTTTCTGACTGGACTGCGCAACACCCAGAGGCAAGGTGAACGCGAGGGCCTATAATGCAAGAACCAAG
GCGAGTCACGCACTGTCTGGGCAAAAGAGGAGTAAAGACCCCTCAGCTGCAGCCCGGCAGCGCATTCCTACCCAG
GGTCCGCCGCCAGAGCTTTACCGCGCGGTTCGGATAGTTACACTACTGTCCGGGACTTCCTAGCCGTGCCGCGGAC
CATCTCAAGTGCTTCCGCCACACTCATCATGGCGGTGGCAGTAAGTCACTTCCGCCCGGGACCGGAAGTGTGGGA
TACTGCGAGTATGGCGCGGTCAAAGGTGAAGCAGGACATGCCTCCGCCGGGGGGCTATGGGCCCATCGACTACAA
ACGGAACCTGCCGCGTCGAGGACTGTGCGGTACAGCATGCTGGCCATAGGGATTGGAACCCTGATCTACGGGCA
CTGGAGCATAATGAAGTGAACCGTGAGCGCAGGCGCCTACAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTT
GCCACTGTTACAGGCAGAAACCGACCGGAGGACCTTGAGATGCTTCGGGAGAACCTGGAGGAGGAGGCCATCAT
CATGAAGGACGTGCCCAGTGAAGGTGGGGGAGTCTGTGTTCCACACAACCGCTGGGTGCCCCCTTGATCGG
GGAGCTGTACGGGCTGCGCACACAGAGGAGGCTCTCCATGCCAGCCACGGCTTCATGTGGTACACGTAGGCCCT
GTGCCCTCCGGCCACCTGGATCCCTGCCCCCTCCCCACTGGGACGGAATAAATGCTCTGCAGACCTGGAAAAAAA
AAA

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FIGURE 5363

MQEPRRVTHCLGKRGVKTPLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLIYGHWSIMKWNRRERRRLQIEDFEA
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPPLIGELYGLRTTEEALHASHGFMW
YT

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FIGURE 5364

GCCCCCTCCCCGCCCGCCTCCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCGCACCCCTGCTAACATGG
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA
AATTCACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGACAGG
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG
CTTTGGAAAGTGTGAAAGCTGCTAGTGAAGTCTATTCTCCTTTATCAGGAGAAGTAACTGAAATTAATGAAGCTC
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC
CTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAGTGAAAATGGA
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGCTTAAATTAGTGGTGGATAGAAGACTTAG
AATAGAAACTTTTAAATATTACCGATGGGGGAAAAAACTACTGTTAACTGCTAATGAAAGAAAATGCCTTTAA
CTTTCTAATGATTATAGATAAATATAATATGCATCTTTTTCACAATATCCTATGATTTTACTAGGCTCTAGT
GTTCAGAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAATTACATAATTCAAAGATAACATTGTTATT
CTTAAGCCTTATATAATATTGTAAGTTGCATGTATCCATACCTGGATTGTTGGGATGAAATACTTAATGATCTTTCC
ATTGGAAATAACTGGAAGTGAAGAGGTTTTGTTGCTTGTACAGTGTGAGATGAGGAACACCACTATTTTAAATTTT
GCGATACACTGCATTTGCTGGTGCTATTTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC
TTTGTT

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FIGURE 5365

MALRVVRSVRALLCTLRAVPSPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTKHEWVTTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 5366

TACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG
CGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCT
CCCGCTCCTGAGITCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT
ATTCAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAA
ATGGTTGATGAAAAATAAACATCAGTTTCT

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FIGURE 5367

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTTCGTAACCTTAAAGGGAACTTT
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGA^ΔCCCA
CTTAGGTGGCACC^ΔATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGT
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT
TGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGT
TACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAA
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCC
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA
GGAGGAATTTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTC
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATTAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTTAAGCTGTTCT
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 5368

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQFAMEDWSAAPTQAQATEWVGATTDWS

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FIGURE 5369

CTTCCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA
GAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAGGATG
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCTGCCA
GCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGAT

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FIGURE 5370

GTCGTCACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG
GAGCGGCTGTGCCATGTTGTGCGGTAGCATCCCGCTCAGGCCCGTTGCGGCCCCGTCTGTGCGCCACGTCCCGCG
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGACAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGA
AGCGGCCCTTCCCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCA
ATGTCCCTGCTTCTGTTTGTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAG
TTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAA
CTACTGTGGGTGTGCGCATATGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG
TGTTGGCCCTGGCGAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG
GCAAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCATCATCTTG
GCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCAT
CTGGCAGGATCAGATTGGGTCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCAGTGACGATATGG
TGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTAGTCTTTATGTCACCTCAGGAGACTTATTT
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTG
AAATAAATTGAATTTAATGTTGAATACTTTAGGCATTCACTTAATAAAGACACTGTTAAGCACTGTTATGCTCA
GTCATACACGCGAAAGGTACAATGTCTTTAGCTAATTCTAATTAATAAATTACAGACTGGTGTACAAGATACTTG
TG

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FIGURE 5371

ACTGGAGTAACTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGT
ATCCTGATAGGTGTTTGCCTCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTGAAGTCCCC
ACGTATGAGTTCACCAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTGAAATATGTAAGAAT
TGATGATGTATTTGCAAACATTAATGTGAAATAAATTG

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FIGURE 5372

GGGCCTGCGGGAGCGCGGCCTTGCGGTTCCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGGAGGGGGTGCCAGCAGCGACCCCCGGCT
CCCCCTAAGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCCGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCTGCGCGACCTCCGCGGGGCTGGGGAG
CTGGGCGGGGAGCCCGGGGCTGCCAGGCCCGGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCTAGACCTC
CGCTCCCCAGCCACCGTCTGGATGCTGTCTGTCTATACAGGCGCTTGGAGCTGCTGAGCTTTCTGAAAAGGGG
ACCCTTCTTAAACTCTAGGAAGTAGAGTGGCATTGTGATGGAATACTCTTATGCTCATTGAACTGTCCCTC
TGAAGTTCTCCCTCGAAGGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC
TGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCCTGGTTCACAGGGGGCCATGGCCTTCGT
CGGGGGTTTGGTGGGCGGGCCACCGGGACTCGCCGTTGGGGGGGCTGTGCGGGGGGCTGTAGGTGCCTGGATGAC
AAGTGGACAGTTTAAGCCGGTTCCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTAAACGA
AGCCGCAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGCTGGTTCATGGGCAGCGAGGC
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTCACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA
CTAGGCCCGCACCTCCGGGGAGGTGGGGGGCCCCCTTAAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG
GGAGAAGCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCGCTGGAGAGG
CCACCGCTGTGCAGTGTATGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCTGCTGCGCGAGGCTTCGGAGGCGTCTGCTGA
GTCTCTCACC CGCATGGGTCTGGGGAAGTATCAGCTCAGCCGACGGTCTGACCACACTTCATCTCCCCCG
GGGCCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCCACCCCCCTGCAGGTC
CTGGGGTCTCAGGGCCTTGGAGCAGCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCCTACCCAGG
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC
GGCCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCATCTGAAAAGTCTGGTAGTT
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT
TCCAGACCACCTCGGTAAAGCCAACATCACAATAAAGCAAGGAAGCGCATTGTTTTAGTTTCCAGTGCATCTAA
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT
AAAAATATTTACTGTTCAAATGCTGACACAGAAACGCAAAGTGAGCACATGCTGTTGGAAAATGGTGCCAAATA
GACTTGCCCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAAAACACAGTATTCACAAAGCATAGTAGAAT
GAGGTATGCCCTGTATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCCTAAAGAT
TTCCCCAGTACAGTCAGCTCTCCGTAACTGTGGTCTCCACATTTAGATCCAACCAGCCTTGGATAGGAAATATTT
GAAAAAAGAAATTCATTGGTACTGAACACGTACAGACCTTTTTTCTTGCCATTATTCCTAAACAATATGGTG
TAGCATATTTACATAGCATTTATATTGATTTGGTATTATAAGAAATCTAGAGATGATTAAATTATACAGGAAG
GTGTGCGTAGGTTACGTGCAAACGCTATGCCATTGCCCATCAGGGACTTGAGCATCCTCAGATGTCGGTGTCTGA
GGGTTGAGGTTGAGTCTGGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTTCACTTTGC
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTTCT

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FIGURE 5373

MTIMVEDIMKLLCSLSGERKMKA AVKHSGK GALVTGAMAFVGGLVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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FIGURE 5374

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCCGCG
ACTCCCGGCGCCGCGGCCGCCACTGCCGTGCGCGCCGCCGCTGCCGGGACTGGAGCGCGCGTCCGCGCGGAC
AAGACCCTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTG
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT
AATGCAGTCTGTGAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAAC
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG
GAAGTCTGGAAAAATCATGTTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCCTCTT
CTGCAGCCAAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAAACTCTTTTACAG
CTTATTGGGATTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGCG
TATGTGACAGATGGAGCTTGTTCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG
CGTTTAAGTCCCTGACTATTGTGTCTTGGCTGAATGTATACATGCAGGTTCATATCTAAATGACTTACATGAA
GTGCTACTGCCGAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTTGGATGTT
GACTGCCTTGAATTTCTTATGGTATACTTGTCTGCTTCGGCCTTGTATCATTTCTCGTCATCTGAATTGATGCAA
AAGGTTTTCAGGGTATCAGTGGTGCACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGG
GAGACGGGGAGCTCAAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA
GACAGCTTGGATTGTCTGGACAAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTC
CCCAGTGGGCTCCTCACCCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGAAATGGCGTGACCACCCCAT
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTTCTGTCTGTGTCAGCGGAGGCGTGCCTTTGCT
TTTACAGATATCTGAATGGAAGAGTGTTCCTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAA
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGT
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAGCTTGAAGCTGT
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGG
GCAAGCGTTGTGCAGAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAA
TGCCTTTGATGAAGTGTGTTTGTAAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGAC
AAAAAAA

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FIGURE 5375

MPRERRERDAKERDTMKEDGGAEFSARSRKRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLI
PTPDKEDDDRVYPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLD
WLMEVCEVYKLHRETFYLAQDFFDRYMATQENVVKILLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE
ILTMELMIMKALKWRLSPLTIVSWLNVMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARA
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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FIGURE 5376

GTGCTCACCCGGCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACCATGAAGGAGGACGGCGGC
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTGCAGGATCCAGATGAAGAAATG
GCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTTACCCAAACTCAACGTGCAAGCCTCGGATT
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAGGAAGTCTGGAATCATGTTA
AACAAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTTCTGCAGCCAAAATGCGAGCA
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAGCTTATTGGGATTTTATCTTTA
TTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGCGTATGTGACAGATGGAGCTTGT
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT
GTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCGCAGTATCCC
CAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCCTGGATGTTGACTGCCTTGAATTTCTTAT
GGTATACTTGCTGCTTCGGCCTTGATCATTCTCGTCATCTGAATTGATGCAAAAGGTTTCAGGGTATCAGTGG
TGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTGCTGGAC
AAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCCG
CCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCGTTGACCACCCCATCCTTCTCCACCAAAGACAGTT
GCGCGCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTTCGTTTGTCTTTTACAGATATCTGAATGGAA
GAGTGTCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTCTTTTATTGAATGCTTA
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCCTGCTCCCGATGCTGCTAT
GGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGGC
TCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGTTGCGGGCAAGCGTTGTGCAGAGCCCA
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTGTTG
TAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGACAAAAAAA

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FIGURE 5377

MKEDGGAEF SARSRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDPKEDDDRVPNS
TCKPRIIAPSRGSPLPVLWANREEVWKIMLNKEKTYLRDQHFLQHPQLPKMRAILLDWLMEVCEVYKLHRET
FYLAQDFFDRYMATQENVVKLLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILAASALYHFSSELMOQK
VSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARAKKAMLSEQNRASPLP
SGLLTPPQSGKKQSSGPEMA

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FIGURE 5378

TATAAAAGCTGGGCGGGCGCGGGCCGCGGCCATTTCGCGACCCGGAGGTGCGCGGGCGCGGGCGAGCAGGGTCTCCG
GGTGGGCGGGCGGCGACGCCCCGCGCAGGCTGGAGGCGCGGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCCC
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGCCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG
CCCAGCAGCGCCGCTTTCGGCTTCCCCGGGGCGCGGGCCCCGCGCAGCCTCCCGCCCCACCTGCCGCCCCGGAG
CCGCTGGGCGGCATCTGCGAGCACGAGACGTCCATCGACATCAGCGCTACATCGACCCGGCCGCTTCAACGAC
GAGTTCCTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGGCCGTGGGCCCCACGGGCGGC
GGCGGGCGGGCGGCACTTTGACTACCCGGGGCGCGCCGCGGGCCCCGCGCGCGCCGTATGCCCGGGGGAGCGCAC
GGGCCCCCGCCCGCTACGGCTGCGCGGCCGCGCGGTACCTGGACGGCAGGCTGGAGCCCTGTACGAGCGCGTC
GGGGCGCCGGCGCTGCGGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG
GCGGGCCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCACCCGCACCCGCCGCCGCCGCGCAC
CTGGCCGCCCCGCACCTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC
ACGCCGCCGCCACGCCCGTGCACAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCTGCCGGGCCCTGGC
AGCGCGCTCAAGGGGCTGGGCGCGCGCACCCCGACCTCCGCGCGAGTGGCGGCAGCGCGCGGGCAAGGCCAAG
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGGTGCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGC
GACAAGGCCAAGCAGCGCAACGTGGAGACGCAGCAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCTGCGC
AAGCGGGTGAACAGCTGAGCCGCGAACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCAGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGGTGTGGGACCGCCCTGGGCCAGCTCCGGCGGGGACCCA
GGGAGTGGTTTGGGGTCGCGGATCTCGAGGCTTGGCCGAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCCT
CCTGAAAGCCTGGCCTGCTCCGCGTCTCCCTCCCTTCCCTGCTGCGCCGAGCTTGGTGCCTAAGATGAGGGGGC
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCCGCAACTCTAGTATTTA
GGATAACCTTGTGCCTTGAAATGCAAACTACCGCTCCAATGCCTACTGAGTAGGGGGAGCAAATCGTGCCTTG
TCATTTTATTTGGAGGTTTCTGCTCCTTCCCGAGGCTACAGCAGACCCCCATGAGAGAAGGAGGGGAGCAGGC
CCGTGGCAGGAGGAGGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCAACGCTGTC
CTAGAAAGGGGTGGAACATAGGGACTTGGGGCTTGGAACTAAGGTTGTTCCCTAGTTCTACATGAAGGTGG
AGGGTCTCTAGTTCCACGCCTCTCCACCTCCCTCCGCACACACCCACCCAGCCTGCTATAGGCTGGGCTTCC
CCTTGGGGCGGAACTCACTGCGATGGGGGTACACAGGTGACCAGTGGGAGCCCCACCCCGAGTCACACCAGAAA
GCTAGGTCGTGGGTGAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG
GGCATGGGGGTGAAGGGCCACTGGGACCCTCAGCCTGTTTGTACTGTATGCCTTCAGCATTGCCTAGGAACAC
GAAGCAGCATCAGTCCATCCAGAGGGACCGGAGTTATGACAAGCTTTCAAATATTTTGCTTTATCAGCCGATA
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCCCTGTGTGAATGTGAATGTGCGCGTCTCTGCTAAACCAC
CATTTTATTTGGTTTTTGGTTTTTGGTTTTTGGCTCGGATACTTGCCAAAATGAGACTCTCCGTGCGCAGCTGG
GGGAAGGGTCTGAGACTCCCTTTCTTTTGGTTTTTGGGATTACTTTTGATCCTGGGGACCAATGAGGTGAGGGG
GGTCTCCTTTGCCCTCAGCTTTCCCCAGCCCTCCGGCCTGGGCTGCCACAAGGCTTGTCCTCCAGAGGCCCT
GGCTCCTGTCGGGAAGGGAGGTGGCTCCCGCCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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FIGURE 5379

TTGAGGGTCAATTCCAAACTCCTTCACTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA
AGGATCCTTGCCCGCTGGAGAAACCACTCCTTCGCCGTCTCTGCATTTCGTGATGGTCTCCTGGGTAGTAAAGGT
CTTGAGGGCAATGATGAACAGGGAGGACTCGGGGTTGAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT
GTTGGAGACATACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCTGATGGTCTTGCTGTGTACCCCTTCCAGTCACCGCTCCG
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCTTGTTGACCTCTGGCATCACATCCTTGCCGTCTACCAG
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCCTCGGTGTAGTTGATCTTCTCACC
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCTC
CGTCACCAGGTTCTTGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGAGGGTCAAGCTGAAGTGGTTGAA
GCGGTCCTTGTGTCATCGAAGAGGCGGCGCAGGTTGAGCTCGGAGCGGTGCTCGCGGTACCATTGCTGCAGCTT
CTGGAAGTGGGGTCCCGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA
GGAAGGAGCGCCGGCAGCGCGCAGCA

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FIGURE 5380

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC
TGTGCCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAACACCCCCTCCCCGATTTAGA
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA
CCACCCCAGTGTCCCCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAC
AATGGAACCTGGTACCTAGAGAAGAGGATGAGAAGGATCCCCGTGAACCCTAG

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FIGURE 5381

MTKKRKNNNHAKKGRGHMQPICCMNCARCMPIKYKAVKKLLYVKLHYCVSCAIHSKVVRNRSHEARKDPTPPPRFR
PAASILTPKSNHSTQTKCSMDIGKVNEITYKEYYKLIKENLHQKRKPPPPVSPRLKVQACPGPGGIESARS
GHVMQVRIPVCQVSSSLVTRLTDKTNGTWYLEEDEKDPREP

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FIGURE 5382

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATAACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTTCAGGTCCTCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCACTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCAAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCGTGCC
CAGCCTCCTGCATCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC

[illegible]

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FIGURE 5384

GAGGCCCCGGGAGCGGCAGTGGAACCGACTCCCAGAACTCCGGACGTGTGCGGCGCAGTGAGTCGCAGCCATGTTC
CTGGTTAACTCGTTCTTGAAGGGCGGCGGCGGCGGCGGCGGGGAGGCGGGGGCCTGGGTGGGGGCCTGGGAAAT
GTGCTTGGAGGCCTGATCAGCGGGGCCGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGTGGTGGAGGCGGC
GGTGGCGGTGGAACGCCCATGCGCATCTAGGCGGAGTCATCAGCGCCATCAGCGAGGCGGCTGCGCAGTACAAC
CCGGAGCCCCCGCCCCACGCACACATTACTCCAACATTGAGGCCAACGAGAGTGAGGAGGTCCGGCAGTTCCGG
AGACTCTTTGCCCAGCTGGCTGGAGATGACATGGAGGTCAGCGCCACAGAACTCATGAACATTCTCAATAAGGTT
GTGACACGACACCCTGATCTGAAGACTGATGGTTTTGGCATTGACACATGTGCGAGCATGGTGGCCGTGATGGAT
AGCGACACCACAGGCAAGCTGGGCTTTGAGGAATTCAAGTACTTGTGGAACAACATCAAAAGGTGGCAGGCCATA
TACAAACAGTTCGACACTGACCGATCAGGGACCATTTCAGTAGTGAACCTCCAGGTGCCTTTGAGGCAGCAGGG
TTCCACCTGAATGAGCATCTCTATAACATGATCATCCGACGCTACTCAGATGAAAGTGGGAACATGGATTTTGAC
AACTTCATCAGCTGCTTGGTCAGGCTGGACGCCATGTTCCGTGCCTTCAAATCTCTTGACAAAGATGGCACTGGA
CAATCCAGGTGAACATCCAGGAGGTAAGGACCCCCATATTGGGGTATGGGTGCCTGGGAGGACCCACCCCTCA
GCCCTTCATACCAGCTCTGAGCTGCAGTCCCCTTCCTCTATTTTGCCAGCCGTCCCTGGGTGAGGGCAAAGGGG
CTGGTGCTCTTGGGGTTCCCTGTCCTCACTCTCCACCCTCCTCTCCCCAGTGGCTGCAGCTGACTATGTATTCCT
GAACTGGAGCCCCAGACCCGCCCCCTCACTGCCTTGCTATAGGAGTCACCTGGAGCCTCGGTCTCTCCAGGGCC
GATCTGTCTGCAGTCACATCTTTGTGGGGCCTGCTGACCCACAAGCTTTTGTCTCTCAGTACTTGTTACCCAG
CTTCTCAACATCCAGGGCCCAATTTGCCCTGCCTGGAGTTCCTCCCTGGCTCTAGGACACTCTAACAAGCTCTGTC
CACGGGTCTCCCCATTCCACACAGGCCCTGCACACACCCACTCCGTAACCTCTCCCTGTACCTGTGCCAAGCCT
AGCACTTGTGATGCCTCCATGCCCCGAGGGCCCTCTCTCAGTTCTGGGAGGATGACTCCAGTCCCTGCACGCCCT
GGCACACCCTTACGGTTGCTACCCAGGCGGCCAAGCTCCAGACCGTGCCAGACCCAGGTGCCCCAGTGCCTTTG
TCTATATTCTGCTCCAGCCTGCCAGGCCAGGAGGAAATAAACATGCCCCAGTTGCTGATCTCT

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FIGURE 5385

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCAATTGCCAAGATGTTTGGCCATTTCAGAAAT
TATTACCAGCATGAAGTTTACCTATGACTGTCTATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTTCATCTG
GCACCTGGGCCCCGAGATCACCAACTGCATGAAGCAGCACTTGCTGGAGATTGACCACCGGCAGCAGCAGCA
CACAAATGACAAGAAGCGGAGTGGCCACCCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG
GGCCGGCCAAAGAGCCCCCTCAAGACCATCCTGGATGCCCAGGACCTGGATTGCTACTTTACCCCCATGAAGCCCGA
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC
CCAGGAAGCTGGCCGCGGGCACCCCTCCTTCCTGCCCCAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT
CTACTCTCTGGAGGCAGAAAGTGACAGTCAAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCAAAGGACCAGAGCCCGCCTGAGGACTC
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGACGCCATCCACTCCCCAGCTCCGCTCCTGACCTGCCCC
TCGGTTTGCCACGTCGCTGCCCCATTTCCAGGATGCGCAGGTCCCACAGAAGATGAGCTGTCCCTGCCCGAGGG
ACCCAGCGTCCCCAGCAGCTCCCTACCCCAGACTCCGAGCAGGAGAAGTTCCTCCGCCACCACTTTGAGACACT
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT
GAGTATCTCCACGCAGTTCCCTCAAGCCTCCAGAAGGCATCCAGGTTCAACCATACCTTCCCTCCCGGGCAAC
CCAGTGCCTTGTGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCCAGAGCAGGTACTGGCTA
CGCCTCCCCAGACAGGACCCACGTCCTCGCTGCAGGGAAGGCTGAAGAGACCCTGGAGGCCTGGCGCCCAACACC
TCCCTGCCTTACGAGCCTGGCGTCTGTGTCCCTGCTTCTCCGTGCTGCCCACAGACAGGAATCTCCCAACGCC
CACATCTGCACCCACCCCAGGCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTTACATGGAGGCCACTGC
CAGTCCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCCTTGGGCCAGGAGCTTCAGGCCATCACCACCGCGAC
AACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCTTGGGGCAACCACGAGGCCCGGGCCAACCT
GAGACTGACCTGTCAAGTGCCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTCACCGTCCC
TGCAGTGAGCTTCCCAGCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTTCGCCAAG
TCTCCCAGCTCCTGAGTCCCCTGGCCTTCTTGCACCCCCAGTAACCCCCAGCTTCCAGAGGCCCGGCCTGGCAT
CCCTGGCGGCACTGCCTCCCTCCTGGAGCCCACCTCCGGTGCCTTGGTCTGTTACAGGGCAGCCCTGCCCGCTG
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGCA
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTACCGTGTGTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGACTGAGCTGGTCTCCACCTTCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT
GGGGACTAGTGTGGCCCCAGCCCAGGCTCTGCCCAGCCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC
CAGCCCAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGG
GCACTGAGGGCGCAGCCCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTAAGCGAATAAACTGAC
AGCTTTG

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FIGURE 5386

MKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTDSQYCRKEV
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFP
PRATQCLVKSPFEVKLMDRGGSQPRAGTGYASPDRTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPTDRN
LPTPTSAPTPLAQQGVHAPSTCSYMEATASSRARISRSISLGDSEGPVATLAQPLRRPSSVGELASLGQELQAI
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVPVAVSFPAPSPVEESALRLHGSA
FRPSLPAPESPLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWPVEALPPSPLELSRVG
NILHRLQTTFQEAOLDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALPSPGPPSPPTL
YPLASPDQLALLEHYSELLVQAVRRKARGH

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FIGURE 5387

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCACTCTGTTACTTAGGGTCAAGGCT
TGGGTCTTGCCCCGCAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTCCAATGAG
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTTCCTGCCTTTTCTCTGGTTGGTCAACATC
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTCCTCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC
TGGGGTGCCCTTGGGGACTACCTCTCCTTCACCATACCCCCTGGGCACCCCTGACAACTTCTGCACATACTGGGG
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCTGGGAGCCCTTCTCAAACCTCCTAAG
ACTTGTTTTCAIGTCCCACGTTCTCTGCTGACATCCCCAATAAAGGACCCTAACTTTCCAAAAAAAAAAAAA

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FIGURE 5388

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKREMDDGLAEGGP
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNSPSVRERECSPSSPLPPLPEDEEGSEVTNSKSRDVYKLP
PPTFPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKIRQRWKEASHRNQLRYSESMKIL
REMYERQ

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FIGURE 5389

GGCACGAGGGGGGAGAGTAGACAGCAGAACCAGCGGCGGGCTAAGCAGAGACTGTAGTAGCGGCGACAGCGAC
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGCAGGAGGACCCGTGGTCCCGGGTCCTGG
CGCTGGCATCCCGGGCAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTGAGCAGGA
AGTTCTGGGGGCTCCAGTACCTGGAATCCCACTGCTGTGCCTGCGGTGCCCACTGTCCCCACGGTCCCCACAGT
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA
GACTCTGGAGGCCCCGAGCAGCTGCTGCAGCCACAGTAGTTCTCCCATGGTGGGTGGCCCTCCTTTGTAGGCCC
TGTTGGCTTTGGCCCTGGTGTGATCGGAGTCACCTGGACAGCCCAGAGGCTCGAGAAGCCATGTTCTCTGCGGCGGGC
AGCTGTGGCCCCCAGAGGGCCCCCTATCTGCGTCCAGCCTTCGTCCCCACGTGCTACAGAGAGCAGATTCCGC
TCTCTCCTCTGCAGCAGCCGCCCCCGCCCTATGGCCCTACGGCCCCCTCACCAGGCCCTCGTGGGCCCCCTCT
GCCTGGGCCCCCTGGACCACCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGCACCCCGAGAGCTGGGCCTAGGCCTGGGGTTGGGCCTGAAAGA
GAAGGAAGAGGCAGTGGTGGCGGCGGGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGCAGGAGG
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCGAGCCTGAGCC
CCTGCCCCCTCCCGTTGGAGGTCTGCGCGGCCCTCCTGCCCCGCTGCGCATTCTGAACTCCTGTCCCTGCGTCC
TCGGCCCCCGCCCCCTCGGCCAGAGCCACCCCAAGGCTCATGGCTCTTGAGGTCCCAGAGCCCCCTGGGTGAAGA
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGCTGCATTGCGACAGCGGCAGGGAGCAGCTGGGAGGACCCAG
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT
GGCACGCGCCTTCAGCCGCTTCCCATCCTTCCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA
GGGCTACGGCTTCGTGAGCTTCAAGGACCCCAAGCGACTACGTGCGGCCATGCGTGAGATGAATGGGAAGTATGT
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA
GGAAAAGAAGAAGCTGGGCCTGAGATAGGGTCTGTGGCCAGGCACCCGCTCCCACCTGGCCGGGCGCTGGCTCCT
CCCTCAGTTCTCTTTGAAAACCCCCAGCTGTCCACCCATCCCTGCCCAAACCAAGTTCAATAAATTTACGT
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5390

MAGAGPAPGLPGAGGPVVPFGGAGIPGKSGEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM
QVPAAPVIRPIIATNTYQQVQQTLEARAAAAATVVPPMVGGPFFVGPVGFPGDRSHLDSPEAREAMFLRRAAVA
PQRAPILRPAFVPHVLQRADSALSSAAAGPRPMALRPPHQALVGPPLPGPPGPPMMLFPMARAPGPPLGSMALR
PPLEEPAAPRELGLGLGLGLKEKEEAVVAAAAGLEEASA AVAVGAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL
PLEVVRGLLPPLRIPELLSLRPRPRPPRPEPPPGMLALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE
WDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGKTKGYGFVSFKDPSDYVRAMREMNGKYVGSR
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR

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FIGURE 5391A

CGGTGTCGCCGCCGCGCGCTGTTCATGGAGCTAGCGCAGGAAGCGCGGGAAGTGGGTTGCTGGGCGGTCTGAAGAG
ATGGGGGTGCCCCGTGGCGGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC
TGGGCTTACATCTTGCAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC
CACCAGGACAGTCCACAGGTCCGTTCGGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCTGCGGGCAGAAATCCAG
GAATCGACAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTCAG
CACACTCAAGACACCCAGCGTCGAGCTCTCTCTCCGGGCCAAGCTGGGGCCATGCGAAGACAGCAGCATACG
CTCCGAGATCCCATGACGCGGCTGCAGAAATCAACTGAGGCGCTGACAGGACATGGAGAGGAAAGCCAAAGTAGAT
GTGACCTTTGGATCCCTCACGTCGGCAGCTCTGGGCTGGAGCCCGTGGTCTGCGTGATGTCCGAACAGCCTGC
ACCTCCGGGCCAGTTCTCTGCAGAACCTCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT
GACCACTTTGGCACTTCGTACCAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCAGGCCAC
GTCCTGGCTGCCTTGGAGCACCTGGCTGCAGAGCGGGAGGCAGAGATTCCGTCCCTGTGAGTGGGGATGGGCTT
GGCGACACAGAGATATCCAGACCCAGGCCCGGACCAGTCAGACTCCAGCCAGACCCTGCCGTCCATGGTTCAT
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCAGCGGAGCACCTCTGAAGGAGCGGCAAGTC
TTGACCCAGCGCCTCCAGGGCTGGTGGAGGAGGTGGAGAGACGCGTCTGGGATCCAGTGAGAGGCAGGTGCTG
ATACTGGGGCTTCGGCGCTGTTGCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG
GTGGAGGAGACCCAGGAACAGGTCCGCTGCTCATCAAGGGAAACTCGGCCAGCAAGACCCGCTGTGCCGGAGC
CCGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACCACAGAGCCGGGAG
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTGCCCCACATTCTGTGGGCACGCTGCTGCCGCACAGGCCG
GGAGAGTTGAAGCCCCTGCCACGGTCTCTCCATCCATCCACAGCTGCACCCGCGTCCCCAAGGGGCTCCAGC
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCTCGGAGCTGCTCCTGCCGGCGGCTGCCTCT
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTGCTGGGATCTACTCCACATGAAGACCAGC
CTGCCGCCAGGCCTTCCCACCCAGGAGCTGCTGCAGATCCAGGCATCCAGGAAAAACAGCAGAAAGAGAACCTG
GGGCAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCACTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG
GGGACTGGTGGGAGCAGCCAGGCCAGGCCGCCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG
CGGCTGCGCTGGGTTCAGGCCCAGGGGGCCCTGCAGAAGCTGTGCAGCTGAAGAGAGGGTTCAAACGGAAGCCGA
GAACCTTGACACTGTTACCCCCAACCTCACCTCCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCTCTCG
CAGTCGTCCCCACCCGCACCTGCAGTCCCTCATGTGCTGTTCTGCTGCCCCACTCAGCTCCTGGACCCTGTCTCT
TTCATCCCGCTAAAGCACCCCTTAAACCCCTTCATCACTTTCATTCTCAGCAAAAAGTAATTGAGCACCTCCTC
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCTGTCTCCAGCAGTTGAGTTCTAGGGCAGGG
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGCTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG
GGGTGGGATGTGTGATTGAATTGAGGGCCACACTGCCAGGTGCTGCTCCGTCAAGGGGTGAGCAGGAGCAAC
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCAGATGCAAAGGCCCTGAGCCAGGATGTGCTGCAAT
AAGGGCCACTGAGGGGACAGTGTAGGTTGGGGGTGAGGAATGTATTAAGATGAGATTGCCCTCTAGTTTGTAT
TAGTTCTTTTTTACATGTAAATCAGCCATTGGAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA
CATATATCCTAGTAGCACTTACTGAAATCCCAGTCAGAGTGGCAGTTGCCCTTGAGGGAAGGTGGGTGGCAGGG
ATCAACTGAGGAGGAGACACAGAAATGTCCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA
GGTGTAGAGATTTGTGAGAGCTCATGTAGTTGTAGTCTTAAGGCCTGTGCATTCACTGCGTGGGTACTCAATT
TATAAAGCAAAGCCCTTACACTTTTGAGATGCCACCTTTTATGCACTAAATTTCCATGTTTAAATGGGTTATAT
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCATTCTTACAGTAGCTTAATAGAAAGGCTTG
TGACACATTGTCTATATCTGTTCTTTCTTTTGTTTTTTTTTTTTTTTTTTTTGGAGATGAGTCTCATTCTGT
TGCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTACTGCAACCTCCGCTCCAGGTTCAAGCCATTCTCATG
CCTCAGCTTCCCAGTAGCTAGGATTACAGGTACGCACCACGCCAGCTCATTTTTGTACTTTTAGTAGGGA
CGGGGTTTCATCATGTTGGCCAGACTGGTCTCGAAGTCTGCACTCAAGTGATCTGCCTGCCTCGGCTCCCAAA
GTGCTGGGATTACAGGCATGAGCCACCGCGCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG
CTTTTCTTTTCTTTCTTTTCTTTTGTAGACAGAATCTGGCTGTTTCCAGGCTGAAGTGCAGTGGCATG
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT
ACAGGCACCCACCACCATATCTGGCTAATATTTGTATTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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FIGURE 5391B

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC
CTGTCTCAGTAAATTTTTTTTCCCAAACCTAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAAACATG
CACAGATGGTAGTTTTACTGGTGTTCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCAGCTTTCCTCCTGCCCT
GGCTGCTGTTTCCCAGCCTTTCCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCTCTCCT
CATCACAGTTCAGCCCCACCTTCAACTGAACCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTAAATTTTTGAGATTCTACCTTATATTTTTGAAT
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTGTGTAAATGAAAAAGATAA
CAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTTC
TCTTTCT

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FIGURE 5392

MELAQEARELGCVAVEEMGVPVAARAPESTLRRLCLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSPQVR
RKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQQHTLRDPMQRL
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRGS LPTPHDDHFGTSYQ
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDTESISRPQAPDQSDSSQTLPSMVHLIQEGWRT
VGVLVSRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLILGLRRCCLWTELKALHDQSQELQDAAGHRQLL
LRELQAKQQRILHWRQLVEETQEQVRLLIKNSASKTRLCRSPGEVLALVQRKVPTFEAVAPQSRELLRCLEEE
VRHLPHILLGTLLRHRPGELKPLPTVLPSTHQLHPASPRGSSFIALSHKLG LPPGKASELLLPAAASLRQDLLLL
QDQRLWCWDLHMKTS LPPGLPTQELLQIQASQEKQQKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG
QAALSEELCQGLSLPQWRLRWVQAQALQKLCS

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FIGURE 5393

GGCACGAGGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGATC
CCCGCGCGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAAGTGCTTCGCTCTTGCCCTACTT
CCCCTACTTCATCACCTACAAGTGCAGCGGCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGT
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATCTA
TGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG
GAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG
CTGCATTCCCCTATGGGTCCGAGCCCCGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAA
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT
CCGGCCAGCTGTCCTCCTGCTGATGTTCCCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT
GTATGTCGCCGTTGTCAATGTGCACTCCTTAGGCTTGGTGTCTCAGACATTGATGTACCTTTCCCTGCCTCGCTC
CAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5394

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAPFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVNVHS

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FIGURE 5395

ATGGCCGTTGCCAGCTTGCCTTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTGGTCCTGGTGCTT
GATGGTCGAGGCCATCTCCTGGGCCGCCCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCCTACCACTTCCGGGCCCCC
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT
CTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC
CTGTGGCGTCCATGA

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FIGURE 5396A

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTACACCACTGCCTCCAGCCTGGGTGACAGAGTGAGACTCTG
TCTCAAAAAACAAACAAGCAAAAATCAAAAACATTGTTTCAGATCTTATTTTCTATTGACCTAAGAGTTA
TTTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGTGTTTCTTTTAATTTTATTATTAATTTCCAGTTTT
AGTAGAAAATGTCTATATAATTTCAACCTTTTTTTTTTGTCTAACTCCTAGTTTTGTGTCTAGATTTTCAGCTTTTT
AATAGAGACCACCTTATCATAATGAAAACCTCATCCTGTTTCTCTCTCATACACAACCTCATTTCAGCTTGATAGAT
TTTCCTCTGGCTGTTCTGTTGCTGGCTTGCCATCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT
TCACATTTCAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG
TCTTTTGTGCCATGAATTTTATAAGAATTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA
CACATTTCTTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAAGGAGAAAACCTGAGCAATGGGAGGAA
AGAACAAAACAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAAGAAAAGTTACCCATAGCTATGTGAAGGGGGCAAATGGGCAG
TGCCTGTCATAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTGTATT
TAGCTGGGCTGCCCTGGATGAATAAAGAGAAATTTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG
ATACATTTAGAACAAAGTATGTAGCTATGGGAATTAATGAGTAAACCTATTATATGCTTAGCATTTATTACTTA
ATGTAGCGTTAACTAGGGATTGTTTCTGTCTTGAGGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG
AAGTTAATAAATATATAATTTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA
GGTACTATCAATAGGGTCAACCTTAAAGGAAATGACTTTTTAATCTAAGATCTCAAGATGAAAGGAGCCAGCCATG
CAAAGAGCCCAATCAGGAGATTTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG
ACATGTGAGGTCTGCAAGGAGGCCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTGAGATCATATGATGTAGGT
AAGCAGAGGCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAATTTAAGTAT
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT
GATCCAGGTGGTTTGGGTGGTGTCTAAACCTCAGTGTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA
ATATGAGAACCCTGACTTAAATGTTTACTTCATCACCAATCTTGCTATTTTGTATGAACTCTCATTTTCTCTG
ATGTTCCCTTTGGCTTTTTTTTTTCTTTCCAAATTGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTG
TTGTCTTTTATTCTACATTAGAAATGTTGCTTCTTTTAGTAAAAGAAAACAGCATGTGTTTGCTTTCTGTGTTT
ATTTTAGATTGGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC
CAGTGGAAGATAATGGAAGAATTGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA
GGAAAAATTGAAGGACAGGAGAGACCTCAAGAAGGATACCTCAGTAGTGTGAAAATGCCATCTGAAAAGGTGTCC
TCTTACCAGAAACGCACATCTGTTACTCCACATCAGAGACTTCATTTGTTGATAAACCTATGAATGTAAGGAA
TGTGGGAAGGCGTTTCAGAGTGCGCCAACAGCTTACTTTTCATCACAGAATTCATACTGGTGAAAAACCGTATGAA
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAA
CTCTATGAATGTAAGGAATGTGGGAAGCTTTTCATATGTGGTGCAGATCTTAGAGTACATCAGAAAATGCATATT
GGTGAGAAGCCCTATGAATGTAAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTACTCTGCATCAGAGG
ATTCATACTGGTGAGAAACCTATGTGTGTAAGAGTGTGGAAAAGCCTTTAGACAGTACGCACACCTGACTCGG
CATCAGAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAAGAATGTGGGAAGGCCTTTTGTGTGGCTCTGGT
CTTAGAGTACATCACAACCTTCATACTGGTGAGAAACCTATGAATGTAAGGAATGCGGGAAGGCCTTTAGAGTG
CGACAACAATAACACTCCATCAGAGAATTCATACTGGTGAGAAACCTATGAATGTAAGGAATGTGGAAAGACC
TTTAGCCGTGGTTATCATCTTATTCTCCATCAGAGAATTCATACTGGTGAAAAACCTTACGAATGTAAGGAATGC
TGGAAAGCCTTTAGTCGCTACTCACAACCTATTTTCATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT
AAGGAATGCGGGAAGGCCTTCAGACTACTTTTACAACCTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT
TATAAATGTAAGGAATGTGGCAAGGCCTTTAGATTGCGCCAAAACTTACTCTACATCAGAGCATTCTACTGGC
GAAAAACCTTTGAGTGTAAGGAATGTAGGAAGGCCTTTAGACTTAATTCATCCCTTATCAACATCTGAGAATT
CATTCTGGTGAGAAACCTATGAATGTAAGGAATGTAAGAAGGCCTTTAGGCAACATTCACACCTTACTCATCAT
CTGAAAATTCATAATGTAAAAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA
ATTAATCTATTTTGCTCCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAGAGTGTGACAATG
TATTGTAGTCCATCATCACTCAAACCTGAACTTCAGCATATTTGTTCTAAAACTAATCCTGTTTATAAGAATGA
AAAAGACATTTACCGTCATCCCTATCCCATCACTTTGTGTCTACTGGACAAGACGCTTAAGTCTCTGTGCTAT

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FIGURE 5396B

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT
GTGCTGGTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAAGTGTCTTGTACAA
AGTCTGGCTACTTTGCTGAAGAGACCACATGAAGAGGCCCTGAAACTACGTAGAGAGGGAGAGGCACCTGCTGAA
CCCTGTCTTCTTGACATCCACCAAGATAACCAGACATTTGAGTGAAATTTTGGATCCACCAGACCAGCCACCAGCT
AAATGCCAGTGAGCGACTTGGTAACTGAACTGATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCTGGC
CCAAATTTCTGACCCACAAAAACATGAGATATAATAAATGGTTGTTGTTTTAAGCCACTAAACTTTCTTTTATT
ATCATACTAAATATTTATTTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCCTCCAC
CAACATTTAATCTTCATTGAAGTTGAGATATCTTATCTCGTTAAATATTGAAAGTAAGGAATTCCTTTCCAGT
TTGTTTCATTAATAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCGTGTAATCCAGCACTTTGGGAGGCCA
AGTAAGGACGATTGCTTGAGGCCAGAAGTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA
AACTTTAAAAATTAGCTGGGCATAATGGTGCATGCCGTAGTCCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT
TTGAACCCAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCCCT
GTCTCAAAAAAAAAAAAAAACTACAATCAGTATTCTCTGGCCCCAGTCAATATTAAAAATTGACAAAGGATAACA
TGAAACTTTGGAAATTAAGAGTCACCTGTATTATGAAGCCCCATTAATTTTTTAACTACTTCATTGTTTTTTAA
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC
TCCAACCTTTGAGCTTTTTTTTTTCCTGAACCAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC
AAATAAAGGAAAAGAATGGAATATTTACCTTGCCATCCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT
GAAGGAAAGTTGTTGATTAGAGAATTTCAACTGGTTAAAAGGTCAAAGGAGGCCAGGCGCGGTGGCTCAAGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTGAGGAGATCAAGACCATCCTGGCTAACACGG
TGAAACCCCATCTCTACTAAAAATACAAAAAATTCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCACTGAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGGTGACAGACCGAGACTCTGTCTCAAAACAAAAACAAAAACAAAAACAAAGATCAAATGAATG
ATAGAATTTGAAAACTACGCTCTTTAATTTTACAAATCATGGATTTTCGTGGTGATAGCAATGGATGCGAAGAC
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT
CTAAATGAGATCAGCCAGATGAAGTTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTTCTTGG
CTCCCCAAAACCTGAGAAGTACAAGTTAGTCTCCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAAG
AACAAATTAACAACACAAAGAAGCAAAACAAACCAATGCACAATTTGGGAAATCTGCAGAAGTAATGGCCTAGTT
TTTTAACCAATACATGTC

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FIGURE 5397

MLLLLVKENSMLLSCFILDLETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKECKGKAFRVRQQLTFHHRIHTGEKPYECKECKGMAF
RQTAHLTRHQRLHSGEKLYECKECKGEAFICGADLRVHQKMHIGEKPYECKECKGKAFRVRGQLTLHQRIHTGEKPY
VCKECKKAFRQYAHLTRHQKLNADRLYECKECKGAFLCGSLRVHKKLHTGEKPYECKECKGKAFRVRQQLTLHQ
RIHTGEKPYECKECKGKTFSRGYHLILHHRIHTGEKPYECKECKWKAFSRYSQLISHQSIHIGVKPYDCKECKKAFR
LLSQLTQHQSIIHIGEKPYKCKECKKAFLRQKLTQHQSIIHTGEKPFECKECKRKAFLNSSLIQHLRIHSGEKPYE
CKECKKAFRQHSHTLTHHLKIHNVKI

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FIGURE 5398

TGGATGGTGAACCCCTGATTCTGAAGTCGGTGTCTGCTGTGTTCATGGCAGGATTCGGTTAGGAGGAACAGCACAG
CATGCTGGGCTCTGGATTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACTATT
GGAGGAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAA
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAG
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGTGAATGACAGTTTA
AGGCCCTCGCTTAGTTGTACTGGATTCTCAGGGAGTCCTCTGTGGCCTTTTGCTCTGAGTGCTGTTTCCCTTGATC
CAGAGGGCAGCACCATGGAAATTCGTGTTTTCTGTAGCATATTGT

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FIGURE 5399

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATGAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCACGCCCCATG
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTCATCACCTACGTTTTGG
TGGCTGGTCTTGCCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGGGCTGGTGTGCTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGCAGCGCGCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCAGCCCCGCCCCCAACCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCCCTGATGGGCATGG

5857/6881
FIGURE 5400

MRFARSPLPILGPQLLLTLFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAASPTPHA
AF
LADPVSNMAMAYGSSLAAQGKELVDKNIDRFIPITKLKYFAVDIMYVGRKLGLLFFPYLHQDWEVQYQQDTPVA
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDL
VAFLGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV
AAQPMMLMYWLTFLVR

5858/6881
FIGURE 5401

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCGCGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTGTA
CGAGCAACTCAAGGGCGAGTGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCCA
GCTCAAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTCCTGCTGTGCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCCGCA
GCTGGAGATGATCGTCTCGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

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FIGURE 5402

MYEQLKGEWNRKSPNLSKCGEELGRKLVLLELNFLLPTTGKLTQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFYFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 5403A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCCGACCTCAGACCCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCCA
AGACGAGGTCCAGTTCCTGCGGACGGACGATGAGGTGGTCTGCACTGACGCGCTACCGTGTCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCGAGGGCTTCGGCAACCGCCTGTGCTTCTGAGCCCCACTAGCAACGCGCAGAATGT
GCCCCCGCATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGTGGC
TAACACGGTGGAGGCTGGCGTGGAGTCATCCAGGGCGGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGCAIGTATCTGAGCTGCCCTACCCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCCTCCAAGCAGAGGTC
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCTTGTCTAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTCACGTCTCCGCTCTTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCCCTGCTGACAGTGATGACCAGCGCAGACTTGTCTACTATGAGGGGGGAGCTGTGTGCACTCATGCCCCGCTC
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGAGCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCCGCATCTCCAAGGAGAAGCTGGATGTGGCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGCGCTGCTCAAGAAGAAGGCCATGTGCAACAGGAGGGCCA
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCGCGCATGATCCACAGCACCAA
TGGCCTATACAACCAAGTTCATCAAGAGCCTGGACAGCTTCAGCGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACAGCAGGAGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT
GCTCTCCATGGTCTGAATTGCATAGACCGCCTAAATGTCTACACCACTGCTGCCACTTTGCTGAGTTTGCAGG
GGAGGAGGCAGCCGAGTCTCGAAAGAGATTGTGAATCTTCTCTATGAACCTCTAGCTTCTTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGGACTGGCTGGTCAGCAAGCTGGATCGGCTGGAGGCCCTCGTC
TGGCATCCTGGAGGTCTGTACTGTGTCCTCATTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCCTGGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGTGCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTACACGATCCGCCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA
GTACAGCAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGCCCTCACCAGGGCTACACCCCTACCCTGGGGCCGCGAGGGCTGGGGCGGAACGGGGTGGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACACGTGGCACGCCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCCTGAAGACGTGATCAGCTGCTGCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGAGCTT
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCGCCATGGTGAATTCAGTTCTGCCCCACCTGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCACCTGGTGGGCCCCAGTCGCTGCCTCTCACACCCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCAGATTGTCTGCCGCCCATCTGGAGCGCATTCGGGAGAAGCTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTTCGGGATGACAACAAGAGGCTGCACCCGTGCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAATAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCAGTGGGCATGGCGGATGAGAAGCGGAGGACAACCTGAAGAAGACAAAACCTCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCAGCTGACGGCTGACGCCGCGCAGACGAC
ACTGGTGGACGCTCTGGCAGAAAATGGGCACAACGTGTGGGCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGGAGACATCCCAGCGCGCGAAACCTCGGCTGGTGCCCTACCGCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGCATCTTCCGGGCAGAGAAATCCTATACAGT
GCAGAGCGCGCTGGTACTTCGAGTTTGAAGCAGTACCACAGGCGAGATGCGCGTGGGCTGGGCGAGGCCCGA
GCTGAGGCCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGCCAGCGCTGGCA
CTTGGGCAGTGAACATTTGGGCGCCCCCTGGCAGCCGGGCGATGTCTGCTGTATGATCGACCTCACAGAGAA

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FIGURE 5403B

CACCATTATCTTCACCCTCAATGGCGAGGTCCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCCTGCCCCTCTGCAGCTTGGGACCTGGCCAGGTGGGTCTATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCC
AGTACCACCTGGTTCAGCAAAGGCTGCCCCAGTTTGAGCCAGTGCCCCCTGAACACCCTCACTATGAGGTATC
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAGAACAGCCT
GGTGGAGATGCTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCACCAGCACTTCCGCTGCACTGCAGGGGCCAC
CCCGCTGGCACCTCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCGGGCGGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCGAGAAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTCGCCATGATGACCCAGCCACCGGCCACCCACGCT
GCCCCGACTCCCTCAGACGTGGTGCCTGCAGACAACCGCGATGACCCCGAGATCATCTCAACACCACCACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCAGCTGCGTGTGGGCGGGCTGGGTCACCCCCTGACTACCA
TCAGACGACATGAGCTTCGACCTCAGCAAGGTCCGGGTCTGTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCCGGCAGCAGGGCCG
GATCAGCCACACGGACCTTGTCAATTGGGTGCCITGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTCCAGGTGGAACCAACACTAAGCTATTTCTGCCGTCTTCGTCTGCCACCCA
CCAGAACGTATCCAGTTTGAGCTGGGGAGCAGAAGAATCATGCCGTGTGACCGCCATGTTCCAAAGCGA
GCGCAAGAACCCGGCCCCGAGTGCCACCCGCGGCTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCCAACCACTTCTGCAAGGTGGAGACGAGGCGTGCCGGCGAGCGGCTGGGCTGGGCGGTGCAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCTGCGCGAGCCGCCGCTCCATGCTCTCTGA
ATACATCGTGCCCTCAGCCTGAGACCCGCGCCATCAGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCCGCATGGCCTGCCGGGAGTTGGAGTCAACCACTTCGTGAGGCCCGCCATATTTCTGCCCCCTGT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCGGCCGCTCAGCCCTGCCATCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGGGCAGCACGCTCGCGACCCCGCTCGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGTGGTGATGGGCATCTTTGGCGATGA
GGATGTGAAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAAACAGCACAGGAAAAGGAAGATGAGGA
AAAAGAGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGGAGGAAGGGCTGCTCCAGATGAAGTGGC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTCGACAGGATTGCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTACGTAGATGGAGAGGAGGAGGAACAGAGGAAGAGAC
CACCCTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAGTGCGGCTGGTGAAGAAGAAGGAAGAAACCTGAGGA
GGAGCGGTGAGCAGAGGAGAGCAAAACCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGGCTGGGCCCA
AGAGGACTTCGTGACAGAGCCCCGAGCTGGTGGGGCCATGTTACGCTCCTGACCCGCGAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTACCGTCCCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCTCGGCCAGATCCGCTCGCTGCTCATCTGCAGATGGGCCCCCAGGAGGAGAACTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTGATGGTCAACGTCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACAGCGCTCCATGTTTGACCACTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCTCCGTGATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTGTGTCTTCTGTCACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGGCGCTGCT

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FIGURE 5403C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCTGCGAGGGATGGCCAGGCATCCGCAGGGACCGCGGCGCGAGCACTTTGG
TGAGGAACCGCCTGAAGAAAACCGGTGCACCTGGGACACGCCATCATGTCCTTCTATGCCGCCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATCCCAACCCTGGGCAAAGA
TGGGGCTCTGGTGCAGCCAAAGATGTCAGCATCCTTCGTGCCGACCACAAGGCGTCCATGGTGCTCTTCTCTGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGTGTCAGTGTGACGTGGGGTTCCTGCCCGACATGAGGGC
AGCCGCTCGCTGGACACGGCCACTTTAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCITGGC
CGTGCTGCCGCTCATCACCAAGTGTGCGCCGCTCTTTGCGGGACAGAAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCTGTCTCGGGTTCGTTCGCTCACCAAGGCGCAGCGTGACGTCATCGAGGACTGCCT
CATGTGCTCTGTCAGGTACATCCGCGCTCGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTGACGTCGCCAT
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGTGGGCCAACTTCGGGGTCACTCAGAGGAGGAGCTGCACCTCACACGGAACTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCATAGAAATACGACCCGGAGCTGTACCGCATGGCCATGCCCTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGATGCTGA
AGGCAACTTTGATCCCCGGCCTGTGGAGACCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGCGGAGTACACACAGAGAAGTGGGCCTTCGACAAGATCCAGAACAAGTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAAAAGAAAAACGCGGAAGATATCACAAGTGGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCTGTCCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAATTA
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCAGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGGTTACAAGAGGCCTTAAGGACATGGAACGGACTCGTCTTCCATTGAAAAGCGGTTTGCCCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCACCTGGAGGCTGTGGTCAG
CAGTGGGCGAGTGGAAAAGTCCCAATGAACAGGAGATTAATTTCTTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCACTGCCTCTATTTCTTGTCCACTCCGGCTAAAGTGTGCTGGGCAGCGGTGGCCACGCCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAACTTGTGCTCTCTGTCGCCACCGAGTCTCTCTCTT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTAGGCCCTGAGATCGTGAAGGCTGGCCTCCGCTCCTTCTTCGAGAGTGCTCGGAGGACATCGAGAAGATGGT
GGAGAACCTGCGGCTGGGCAAGGTGTGCGAGGCGGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGCTCCTCACCACCTCTTCCAGCACATCGCCAGCAGCTTCGGAGATGACGTCAT
CCTGGACGACGTCCAGGTCTCTTGTACCGAACGCTGTGCGAGTATCTACTCCCTGGGAACCAAGAACACTTA
TGTTGAAAAAGCTTCGGCCAGCCCTCGGGGAGTGCTGGCCGCTGTCGAGCAGCCATGCCGGTGGCGTTCTCTGGA
GCCGAGCTGAACGAGTACAACGCTGCTCCGTGTACACCACCAAGTCTCCGCGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCTGTCTATCGAGATCACGCTGCCATGCTATGCAGTACCTGCC
CCGATGGTGGGAGCGCGGGCCCGAGGCACCCCTTCCGCCCTGCCCGCGGGCGCCCCCACCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTTCGCACAGCCATTGTGAGCCGTGCACGCGCGGAGCTCCTGCAGTCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA
GGCCAAGGCGGAGGCGGAGGAGGCGAGCTGTGGTGGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCACGCGGGA
GGAGCTGTTACAGGATGGTGGGCGAGATCTTCTACTGTTCCAAAGTCCCAACTTCAAGCGCGAGGAGCAGAA
CTTTGTGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC
GTCAGTGTGTCGGCCACTGAAGAAGATGCTGCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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FIGURE 5403D

TCACCTTCAGGGAAGGTCGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTCCGTATGACGCCCCGTGTACAACCTGCCACGCACCGGGCATGTAACATGTTCTTGGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCTGCACCAGTTGGTCTTGCACCTTCAGCCG
CACTGCCCTGACGGAAAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGCTGCAGATGAT
CAGTGCCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAACATGCAGCGTCTTGGATCTCAATGCCTTTGAGAGACAGAAACAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTATCAATCGCCAGAACGGAGAGAAGGTATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCAGAACTACCTACGGACACAGACAGG
GAACACGACCACTATTAACATCATCATTTGCACTGTGGACTACCTCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCAATTGAAGAGCAGGGCAAGAGGAACCTTCTCCAAAGCCATGTCGGTGGC
TAAGCAGGTGTTTAAACAGCCTCACTGAGTACATCCAGGTCCTGCACCGGGAACCAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGCGAGTGGTGGGATTCTTGCACGTGTTCGCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGTGTAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTATGTTGCTGTGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGCAGATGGTGGACATGCTCGTGAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTGAACTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCGGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTCAGCGGTCCAGAAAT
CCAGTTCTGCTTTCTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTCGCCAACCGCTTCCA
GGAGACGACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTTCGGAGCATGTGCCGCATGACCC
TCGCCTGCACAACTTCTTGGAGCTGGCCGAGAGTACCTTGAGTACTTCCGCCCTACCTGGGCGCATCGAGAT
CATGGGCGCGTACGCGCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC
CCAGGTGAAGGATCCCAAGCGCCAGTTCACTTCGAGCTGGTGAACGAGGGCGGCGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGAGCCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGGCGGAGGCGGGAAGGCGCGGAGGAGGGCGGGGCT
CGAGGGCACGGCGGCCACGGCGCGCGGGGGCGAGCGCGCGGGTGTGGCGGCCGAGGCGGGCCCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGCGCGCGTGCAGCGGCTGCGGCGGCTTACGGCCCGCAGGCGGGCCACCGCAGT
GGCGGCGCTGCTCTGGGCAGCAGTGACGCGCGTGGGGCCGCTGGCGCGGGGGCGGCGGGCGCGCTGGGCCT
GCTCTGGGGCTCGCTGTTTCGGCGCGCGCTGGTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGCGAGG
CATGCCCCACCCACCAGCGACGAGGTGCAGGCGAGCAGCCGCGGGCGGGCGGAGACGCGAGACGCGGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCGGGCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCCCTTCCGGCCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCGAGCCGGAACAGAGCTGGAGCCGGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACCAGAGCCCCCAAGAAGCAAGCACCTCCCTCACCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGCAGAGGTTGAAGTTCTGAACTACCTGTC
CCGGAACTTTACACCTGCGGTTCTTGGCCCTTCTTGGCATTTGCCATCAACTTCATCTTGCTGTTTTATAA
GGTCTCAGACTCTCCACCAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTGAGGTGCAGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGCGGAGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCTGCATACACTGGTGGCCTTTCT
CTGCATCATTTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCT
GGAGTTTGATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGCGAGTGGGACCGACTGGTGCT
CAACACGCCGTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCTTGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCACAATGAGCG

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FIGURE 5403E

CAAGCCCAACCCGCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCCTCTGTCAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCTGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTCATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCCTTAGTCCCCAAGCCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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FIGURE 5404

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG
TTTCCGTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAGTGTTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCCTGAAGCTGTACCAAGTTCAACCCAGCCTTCTTTCAGACCACGGTCACCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGCAATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCTGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACCTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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FIGURE 5405

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT
NLPHTDFTLCKCMIDQAHQEERPIRQILYLGDLLETCHFOAFWQALDENMDLLEGITGFEDSVRKFIHVVGITY
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESEIKPKNIVEKIDFDSVSSIMASSQ

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FIGURE 5406

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTTGAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5407

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLGEEQGSDAALHFNPRLDTSEVVFNNSKEQGSWGREER
GPGVPFQRGQPFVLIISDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGDDVQLDSVRIF

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FIGURE 5408

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCGGCTGGACACGTGCGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5409

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCC**ATGG**CAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTACAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAATTATTCTCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGGAAGGGGTGGCCCCGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTTCTTCGCCC
TCGCCAAGGAACTCTATCCTGGGCAGTTCAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGTACACGCAGAACATAGATACCCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAGAGAAAGATCTTCTCTGAGGTGACGCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCCAGCGCGTTTCTTCTCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGCAAGGTGCAGCCCTTTCGCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG
GGGTCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAACCC**AGTGAC**AGCTGCATCTCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCCCAATCTCTTACAGCTCCCT
CCCCAAACTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCACTCTGTCTC
CTGCCCCGGGGGCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTCACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACAATAAC

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FIGURE 5410

MAEPDPSHPLETQAGKVQEAQDSDSSEGGAGGEADMDFLRNLFSQLSLGSKERLLDELTLEGVARYMQSER
CRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY
FMRLLDKDKGLLLRCYTNIDTLERIALGLEQEDLVEAHGTFYTSCHVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGTSLOVQPPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI
MGLGGGMDFDSSKAYRDVAWLGECDQGCLALAEELGWKKELEDLVRREHASIDAQSGAGVNPSTSPKPKSPPP
AKDEARTTEREKPQ

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FIGURE 5411

CGAAAGCGGCTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG
GTGCCGTACAGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGTGACGGGAC
AGAGCGGTGCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTCAAGTCTC
TGAGGGAGGAGCCGCTGGTGAGAGAAGCAGACATGGACTTCCTGCGGAACCTATTCTCCCAGACGCTCAGCCTGGG
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTGCG
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGAGGCATCCCCGACTTTCGCTCTCCATCCACCGG
CCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACA
TCCGGAACCCCTTCTTCGCCCTCGCCAAGGAACCTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGG
GCTGGAACAGGAGGACTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCT
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCCAGCGGTTTCTTCTCCTGTATGCAGTCAGACTTCCT
GAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACC
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTCTGCGGATGATTATGGG
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGAGGGAGCACGCCAGCAT
AGATGCCCAGTCGGGGGCGGGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAA
GGACGAGGCCAGGACAACAGAGAGGGAGAAACCCAGTGAACAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTC
AGGGACAGCTGAGCCCCAACCGGGCTGGCCCCCTCTTAACCAGCAGTTCTTGCTGCGGGAGCTCAGAACATCCC
CCAATCTCTTACAGCTCCCTCCCCAAACTGGGGTCCCAGCAACCCTGGCCCCAACCCAGCAAACTCTCTAACA
CCTCCTAGAGGCCAAGGCTTAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA
ACCTCCCTCATCTCTAACTGCCCCACGGGGCCAGGGCTACCCAGAACTTTAACTCTTCCAGGACAGGGAGCT
TCGGGCCCCACTCTGTCTCCTGCCCCGGGGGCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGG
TGTGGGCTCTGAATATAACCCACACCCAGCGTAGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
AGCTCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT
ATTGGAGACAAATTAAAAACAAAACAACCTAACAAAAA

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FIGURE 5412

MDFLRNLF SQTL SLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCTQNIDTLERIAGLEQEDLVEAH
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGT
SLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGGMDFDSKKAYRDVAWLGECDQGCLALAE LLGW
KKELEDLVRREHASIDAQSGAGVPNPSTSASPKKSPPPAKDEARTTEREKPQ

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FIGURE 5413

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTTGGCCTTTGCTGACTCGTTCGGGGGTTCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCCAGAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTACCTGTACCCACAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA
CCAGACCCACCCAGACGTGCCCGTTCGGGGATGAGAGCCAGGCTCGAGTGTCCACATGGTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAAATTGGCGAGAACTCGACATCATCCGTCAGAAGCGCCTGTCCCA
CGTGTCTGGCCACCGGTCTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTCACCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTGTTGAAGGCTG
TGGGATGACACCAATGCCAACCATCCCAAATTTACAACATCGACCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGCAAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTCACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCGGGTCTGGATATGCCACCCCAAGAACTGGG
CCTCCCCGCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCAGTGC
TTCCAACGACAGACTTCCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCCGCCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGGCCCCCTGCCCTCAGTCTTACCTCGGCACTGATCGGATCACAGCCCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTTGAGTTTCAAGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCCCTCTGACATCTGTGTTCTTCTGTGCTCAGCTCCACGCCCGGGCCCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCCTGTTATCATTGAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCAATAAATGGTCAGGACAAAAA

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FIGURE 5414

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRNLLYEYAREGYSALPQLDIERFCACPEEAAHALE
LRKGELRSADLPAAIISTWQELRQLQEIQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV
HLYPREAQLEEQFYLQALKLPNQTHPDVPVGDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSG
HRSYYLRGAGALLQHGLVNFTFNKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA
EVGLAGYFMDHTVAFRDLPVRMVCSSCYRAETNTGQEPRLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV
NATACAVPRLLIALLESNQKDGSVLVPPALQSYLGTDRITAPTHVPLQYIGPNQPRKPGIPGQPAVS

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FIGURE 5415

AGCTGGATTCAGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTGCGGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCCTAACTTGTGGCCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGGCCGCTCGGAAGCTGGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGGCTCAGCA
CTGGCCGCGAGGCCGTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCCTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGAAGCGCTGGGGGCACAGTGGGCTGGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATC
AGGACCACTATTAAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCTCTGTCAACACCCTTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5416

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTIVVRGKYDCGHVQKK

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FIGURE 5417

AGCTGGATTTCAGCGTGTCCGCGACCTCACCTTTAGGTCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGC GGCGAGAGTG GTTGGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCTTAAC TTGTGGCC CAGCTCTGGTT
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCT
CGGAAGCTGGGGCCCCACGGAAGGCCGGCCGCAGCTGAAGGGTGTGGTCTGTGCACGTTTACCCGCAAGCCGAAG
AAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT
GGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGGGCGGCCGCACCCAGGACCTGCCAGGCGTC
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGACGGCTGGGGGCACAGTGGGCT
GGGCGCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA
GAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATCAGGACCACTATTAAGCCATAGGAGTCCTG
GGGGTGCAAAGGGTGCCCTCTGTCAACACCCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA
AAAAAAAAAAAAAAAA

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FIGURE 5418

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTIVVRGKYDCGHVQKK

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FIGURE 5419

GGGGAGCTTGCGGCACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCGGGCCACAGCCGGGCCTGGCGG
GGGGACCAATGGGCGCCTCGGTCTCCAGGGGCGGGCCGCCCGGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGCTGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCG
CGACCACGGCGCCACCGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC
TTGCCCCCTGGGCCGCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTGCAACCCCTGCGGCCAAGAAGG
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAACAGGACAACCGTGCCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTACGTGGTGGTGAAGAAGCAGGTCTTGACCTAGAGGAGGAGGG
TCTGTGGCCAGAACTGCTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCGACACGACAG
CGGCTGTATGTACAGACTCCTCGTCCAACCTTCTAGACGCCAACAGACTGTTCTAGATAAAATTCTCTGCTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTGCAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCGTGTGACCAA
CTCCAGTGTGATCGTGCGAGTCCGTCTGTCTCTAGTCAGCACTACCCCTTCTTGCAAGACAGCCTGACTGTGCCCTT
CCAGGGCCTGGGACCATTTGGCTGGGACCCCTCATTAACCAACCAAGCACTTGTACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGCGCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCTCTCTTCTCTCTCCCAACCAAAACCCCTCCGATCCAGCCC
CAGGCCCCCTCTGTACCATCCCTCCCTCCGCACCACTGACCTCTTGCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACTTAGAATCTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT
ACGTAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTCAAGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
GCCCCGGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCATCGCTACAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTTGTG
CCCAGGTTGAGGCTATAGTGAGCCATGATCATACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTC
AAAAAAAAAAAAAGAATTTGGAGATGGTTCTGCCCCTCTGGTTTCTCTGAAAAAACGAGGTAATTCCTGAGCCC
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTATTTTGACTTTTTT
TCAAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTCTTATTTTGCC

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FIGURE 5420

MGASVSRGRAARVPAPPEPEPEEALDLSQLPPELLLVLSHVPPRTLLGRQRQVCRGWRALVDGQALWLLILARDH
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLIRNPGQEGLRKWMVQHGGDGWVVEENRTTVPGAPS
QTCFVTSFSWCCKKQVLDLEEEGLWPPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAPVDP
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

[illegible]

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FIGURE 5422

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIIVRGSK
GAKDGALTLLLDEFENMSVTRSNSLRDSEPPPARARQENGMPPEPATTARGGPGKAGSRGRFAGHSEAGGGSGD
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQGEPH
DVA PNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVPGPPGRSPQREPQRVS
HEQFRAALQLVVDPGDPRSYLDNFIKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH
ENVVEMYSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTH
DGRVKLSDFGFCQAQVSKEVPRRKS LVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYFNEPPLKAMK
MIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

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FIGURE 5423

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC
CCCTGAAGTCGGCAGGCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCCGTGCGCTCGTC
GCTATGGCGCCCAACATCCAGACCCAGGCCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCCTTCGACCCCAAGTTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGAGAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGGAAAGAGGAGATTAGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGGAGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCGAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAATGGAACGTG
AAGAACAAGCTAGCAAGGGCTATGAGGAAAATACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACACAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAAACATCGGGACATGAATGAGAAGGAACTGGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTGAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTTGAGTCCCAGGGCATTGAGGGCTGGTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACTTGTTTGTTCGCCACCCCAAACCTTTGCTGTTAATAAAGT
CAACTTCTCTTTA

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FIGURE 5424

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCVRVKYCNSLPDIPFDPKFITYPFDQNRVQYKATSLEKQHKHDL
TEPDLGVTIDLINPDYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMRKTEYISTEFNRYGISNEK
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDS
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRQEEEMDYAPDDVYDYKIAREYNWNVK
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLNHE
PEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESEREEDRDEASDKSGSGEDESEDEARAARDK
EEIFGSDADSEDDADSDDEDRGQAQGGSDNDSGSGNGGGQSRSHRSASPFPSGSEHSAQEDGSEAAASDSSE
ADSDSD

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FIGURE 5425

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAGAGGAGATTCAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTGATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAAATAATACTTCATCTTC

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FIGURE 5426

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCCGTCCAAGGGCCCGCTGCA
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAACGCGGCAATGGTCTCATCAA
GGTGAAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT
CGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT
CAAAGACATCCTCATCCAGTATGACCGGACCCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATTAAGCCCATCGTGACTCAAACTCACTTGTATAAT
AAACAGTTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 5427

MPSKGPLQSVQVFGRRKTATAVAHCKRGNGLIKVNGRPLEMIEPRTLQYKLEPVLLLGKERFAGVDIRVRVKGG
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSYR

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FIGURE 5428A

AGAGAACAGATTTCGGAAGCTGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCTACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCAGCAGCAGCGGAAGAGTTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCTTCCAATATCGATAATGTTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTTCCTTGATGCGCAAGTTCATTGCCTACCAGTTTACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCATACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTCGGGTCCGCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCCACGCATCGACTACGATCGCATCAAGCCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT
GACTTCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGCTGTGCTGTG
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAGGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGAAGTGAAGCAGGGAAGGAGCGGGAGCACAACCTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCCAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCAGCCAGGAACTTAGAAAATACTTCAAGATGGGGGACCACGTGAAGGTGATT
GCTGGCCGATTGAGGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTCGTTATCCTGTTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTATCGTGCGACTAGAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGAAGTGTGACAGATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGGACTCAGAGCAGAACACATCCATGTGAAAGACATCGTTAAGGTGATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCGCATCTCTTCCGAAGCTTCGCTTCTTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTGACGCT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCGGGGCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGGCATCTCCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTACCCAGGTGGGCTCACGG
CGCCCGGGCGGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCAGACGCCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCAAGACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATAACAACCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACAGTCTCTCTCCCTATGCTGCCCCCTCCCAACAAGGTTCTTACCAGCCAGCCCC
AGCCCCCAGAGCTACCACCAGGTGGCGCCAAGCCCAGCAGGTACCAGAATAACCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTTATGACACCTGGA
GCTCCCTCCCTGGTGGCTACAACCCACACAGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTAACC
ACTGACATTGAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTATCCGCAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTGAGCATTTCCAGTGAGCACCTGGAG
CCTATACCCCCACCAAGAACAACAAGGTGAAAGTGATCTGGGCGAGGATCGGAAGCCACGGGCGTCTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCCTG
GGGAAGCTCCTGGAAGCTGAGAGCAGGCGGGGCTGGAAGTTCGTGCGATGAAGAGTGATCCTCTCTCTCTCC
TGGCCCTTGGCTGTGACACAAGATCCTCTGAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTCTCTTTTCTCTT

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FIGURE 5428B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTTGTACCGTCTTCAATAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 5429

MSDSEDSNFSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEYDEEEEEEDDDRPPKKPRHGGF
ILDEADVDEYEDEDQWEDGAEDILEKEEIEASNIDNVVLDEDRSGARRLQNLWRDQREELGEYMKKYAKSSV
GETVYGGSDLSDDITQQQLPGVKDPNLWTVKCKIGEERATAISLMRKFIAYQFTDTPLQIKSVVAPEHVKGYY
YVEAYKQTHVKQAIEGVGNLRLGYWNQQMVEIKEMTDVLKVVEVANLKP KSWVRLKRGIIYKDDIAQVDYVEPSQ
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKS
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKEREHNFQPGDNVEVCEGELINLQKILSVDGNKITI
MPKHEDLKDMLEFPAQELRKYFKMGDHSVVIAGRFEGDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA
SGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFVAVALDSEQNNIHVKDII
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAFMSPRISSPMHP
SAGGQRGGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTI SVDRQRL
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLODGSRTPHYGSQTPLDGSRTPAQSGAWDPNN
PNTPSRAEEYEFYAFDDEPTPSPQAYGGTPNPQTPGYDPDSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG
SYQPSPPSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPPSPVGYSPMTPGAPSPGGYNPHTPGSGIEQN
SSDWVTTDIQVKVRDITYLDTQVVGQTVGIRSVTGGMCVYLKDSEKVVSI SSEHLEPITPTKNNKVKVILGEDRE
ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA

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FIGURE 5430

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCTTTCGCTGCGTCCCTTTCAGGGGCGGTGGCGCTCTGCAAGGCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCCGCTTCCATTGGCTGTAGCTCCGGCCCCGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCCGCTGGCGTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGACGAGGTTGGCGACGCCGCCCGCCGGGCCCCA
GATCAGGCCGCGAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAGTTGCGCTCTGGCTTGTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCTGTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGTAGAGTTCGACAATGATCCAATTCGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCTT
CTCCCAGACCTCTGTCAGGAACCGTACTACCAGCCACCTTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCTGAGTGGTCTGCTGGCCACTGGCTGGAGGTTTAAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCCTTTATATGAAATTGTCTCTTTACGTGAGAGACTGGCATGACTGCGTTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC
AAACTCAGTGCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGGTGCTTGTGGATCAGAGCAGATTTTACCCC
TGGTCTCGGAATCTAAAAACCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

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FIGURE 5431

MASALSIGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPPGSARRLVRSKRACGNPPDAFGLSRASVHPPL
PRVSI GCSSGPGRKRERVGGAAWRQRKMAASAAVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSTK
AQGPQQQPGSEGPSYAKKVALWLAGLLGAGGTVSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY
RQMII EPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKKRPGIETLFQQLAPLYEIVIFTSET
GMTAFPLIDSVDPHGFI SYRLFRDATRYMDGHHVKDISCLNRDPARVVVVDCKKEAFRLQPYNGVALRPWDGNSD
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALEDDPLAAFKQRSRLQEEQQRLAELSKSNKQNLFLGSLTSRLW
PRSKQP

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FIGURE 5432

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGCAGCGCCCCGGCTCCCCTGCCGCCTCTTCTTCAGAGTCTGCCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGC GCGCGGACCGGTCTACACCGAGCAGCCCCGAGCGCCCCG
GCCTGATCTCCCACTGCCCGACGGGCTCTTGAGGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCTGGAGCCTGCTGGCGCGCGTGGCTGG
CAGGCGGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCGGGACATTACAGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTGGGACCGCGTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCCGTCTCTGCTACCACCGGATGCCTTGTCCC
TGGGCCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCTTTGAATG
CACCTGCCCCGCTGGGTCTACGGGCTGCGGTGTGAGGTGAGCGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCACCTGGTTTTCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCGCGAGCGCGCGGACCCGTGCCCGCGCGCCCCCTGTGCTCACGGCGGCCGCTGCTACGCCCACTT
CTCCGGCCTCGTCTGCGCTTGCCTCCCGCTACATGGGAGCGCGGTGTGAGTTCCAGTGACCCCCGACGGCGC
AAGCGCCTTGCCCGCGGCCCGCCGGGCCCTCAGGCCCGGGGACCCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCCGTGGCCACTCCCAGGA
TGCTGGGTCTCGCTGCTGGCTGGGACCCCGGAGCCGTAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTCCCTACCTTTCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGTTTTAAGCCATTTTCAGTTCTAACTTACTTTATCCTATTTTGCATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTT

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FIGURE 5433

MVSPRMSGLLSQTIVILALIFLPQTRPAGVFELQIHSFGPGPGGAPRSPCSARLPCRLFFRVCLKPGLSEEAES
PCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVFFRDAWPGTFSFIIETWREELGDQIGGPAWSLLARVAGRR
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRGPGGLRPCAPLEDECEAPLVCRAGCS
PEHGFCEQPGECRCLEGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC
PRGFYGLRCEVSGVTCADGPCFNGLCVGGADPDSAYICHCPPGFQGSNCEKRVDRCSLQPCRNGLCLDLGHAL
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGRDCRERADPCAARPCAHGGRCYAHFSG
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQRYLLPPALGLLVAAGVAGAALLVHVRRRGHSQDAG
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSVDNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRA
GQRQHLLFPYPSSILSVK

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FIGURE 5434

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGCCGGTTTGTGTGGTCGCCATTTTGCTGGTTGCATTACTGGGT
AATCGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGAGTCCCCCTGCCGCTCCTTCAGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCTGCGGCCCTCTGAGCCACCATGCCGTCCCACCGGGCCA
TGGTCCCTTCTCTGGCTTCCAGGGCCCCAGGAGCACACGAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCTTGGCTTCCGGGATGCAACCTCAGCCCCGTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGCCCCAGCAGGCGCCACCCCAGGATTTCAGCAACAA
GAAGGAGAAGAAGGTCTGAACCATGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGGTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAAAGGCTTTCCTGAACCAGGCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACCTTCATGTT
CCGGAACCCACTGTGCTGGTATTTGAGCTGCTGTCTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTCTGGCCACGCTGA
GCTCAGCATCAATCACTGCGACCTCAAGCCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCCCTTTCAGTGGCTCCAATGAGGTGACCCAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC
ACCGCGCGCCATGTGGAACAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCCGGGGCGGGCGGGGAGCCGGGCCACAGCCCCGCGACTACCTCCGCTTCCAGGACCT
GGTGCTGCGCATGTGGAAGTATGAGCCCGCCGCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCGGCAGGCAGCAGTGCTCCACCTCGCCCGCGCCCTCGACAC
CTGCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGATGTGCCCCACAAGACACATCAAGCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTCGTCCCCCATACCAACCTC
ACCACCACCCCCGAGCTGATGGATGTGAGCCTGGTGGCGGCCCTGCTGACTGCTCCCCACCTCACCCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTGCTCCACCCCTCCCGCTCCTGA
TGACCCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGACCCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATACCCTCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA
AGGAGAGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGGCCCTCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTCACCCAGGACCTAGGAGGGGTGGGGGC
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTCTCACAAAAA

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FIGURE 5435

MAVPPGHGPFSGFPGQEHTQVLPDVRLPRRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKI IKNKKAFLN
QAQIELRLLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQQLCTAL
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG
CILVEMHTGEPLFSGSNEVDQMNRIVEVLGIPPAAMLDAQPKARKYFERLPGGGWTLLRRTKELRKDYQGGPGTRRL
QEV LGVQTGGPGGRRAGEFGHSPADYLRFDLVLRMLEYEPAAARISPLGALQHGGFFRRTADEATNTGPAGSSAST
SPAPLDTCPSSSTASSISSSGSSGSSSDNRTYRYSNRYCGGPGPPITDCEMNSPQVPPSQPLRPWAGGDVPHKT
HQAPASASSLPGTGAQLPPQPRYLGRPPSPTSPPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR
PPLPPDDPATLGPGLGRGVPQSTAASS

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FIGURE 5436

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA
GTCCCGTGCGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGGTGGTCGTGGAGGCCGAGGGGGCTTTG
GCGGGGGCCGAGGTCGAGGCGGAGGCTTTAGAGGTCGTGGACGAGGAGGAGGTGGAGGCCGCGGCGCGGTGGAG
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTCGTGGTCGGGGAGGAAAAAGAGGAAACC
AGTCGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTTGTCGAGGAAAGGAAGATGCAC
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCGGAAGGAGATGACA
AAATTGAGTACCGAGCCTGGAACCCCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTTGCCAAGA
AGAGGACCAACATCATTCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCCTGCGTA
ATGGAGGACACTTTGTGATTTCCATTAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTGCCT
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACC
ATGCCGTGGTCGTGGGAGTGTACAGGCCACCCCCAAGGTGAAGAACTGAAGTTCAGCGCTGTCAGGATTGCGAG
AGATGTGTGTTGATACTGTTCACGTGTGTTTTCTATTAAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 5438

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGCGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCCACCTCCTCATGTCCATCCCCAGCCCCCTCCGTGGACGGCTCTG
TGGCCTCTGTGGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCCATGAGAGCAACGAGGGCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGAGCCTGGCAGCCTACACGGCGGCCTGTTCAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTCTGCTTTCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCCACCAGGCCGTGTATGTGAGGTCAAGGCTGAAGCCCCGGAACGTCTGGGCCACCCGTGG
TCTCTGTGTCTGTCTGTGGGTGCCAACCTCACCACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCCAGGACTACAGAATACCATCCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAACGGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAACTGTGTGGGGCCTGTGGAACTTTGACGGGGACAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTCTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
T

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FIGURE 5439

GTCAACTTAGTGTACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTGGTTCCTCCCTTTCTTAA
GCCCTTATTGGCTATCTTCTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT
TGTTTAACTGCTGGTAAAATTCACGTCTTTCAGACTGTAATGCTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCCTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCAGAAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTGCTGCTTGAGAGATCATATAGCTAATGAATTA
GGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCCTTTTGTGTTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCCTATTCAAATAAAGTTATTTCTCCTGGTCT

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FIGURE 5440

GCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG
CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGA
TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCCCTGGAATCCCTCCTGTGAATCCCTTGGCT
CCTGGCATGGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG
CACAAGCACCAAAAGCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGT
GATTCTGACTGAATACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG
CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGA
GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA
TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTGAAGATGATGAACATAATGTT

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FIGURE 5441

GGCTTGGTCACTATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCTGTCCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCTTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAATAATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCAICATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTATCCGGGTCTGTTGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAATTTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAAGACTATGTGGCCCGCCAGATAAGATTTC
GGAGCTGATATCAACTCCATCTGTCTCAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTGGCC
AAGGACTTCGAGAAAGCATACAAGACTGTCTATCAAGAAGGACGAGCAGGAGCATGAGTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5442

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYVVRILSTIDRELLKPNASVALHKKHSNALVDVLPPEADSS
IMMLTSDQKPDVMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRMVRDVFR LAKENAPAIIFIDEIDAIATKRFDQTGADREVQRILLELLNQMDGFD
QNVNVKVMATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 5443

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCCGAGGCCCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAACACC
TTTGTCTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTGAGCAAGGCACGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGCCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGAGCGGTGCTTTC
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCTTCAAACCTCAGGTCACGTCCGAGGTGACACAAGGTACTTCGATGATGAATTTACCGCCCAGTCC
ATCACAATCACCCCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGCTGCCATCACCGCT
GGGTGGTTTTTTCCCCCT

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FIGURE 5444

CTCTTTATAATTTAGTTTCCATAGAAGTTATATGTGCATTTAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCCACAGGCCCGCCCCCTCCTCCCAACCCTCGTTTCAGCCTGTCCAGACAGAAGCTGGGGCCCAGCGGAG
GTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCC
TGCTGGTCTCTATTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCAACCAGCGCCCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATTC
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTGTCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCACTGACCCAGGTCAAGGAGCTGGGCGTGGTCATGTACAACTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCACCCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAATGCCCGAGTTTCATCTACGTGCTGTCACTGAACCTACCTGCCCACTCTGGAGTTCTCCCAACCCTCACA
GGTTCTGGCCTGCCATTGACGATGGGTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCCTGTCA
ACCACAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGACGCAGAATGGGAGGGGCGCCTGCGGAGCCAGCTGGAGGCCATTTTCC
TGAGGGACTGGGACTCCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCTCCGCGCCCCGCTTCTGTCTGCCCCATTGTGGTCTCCTCAGGCTCTCTCCCCTGCTCTCCACCTTACCT
CCACCCCCACCGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCCACCCCACTTTCAGGGCAAAAAGGGCCAGGGTTATAATAAGTA
AATAACTTGTCTGT

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FIGURE 5445

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGGCTCCCGGGGAAGTCATTTCATCTGAATGTGGGAGGCAAGAGATTTCAGTACCTCTCGCCAG
ACTCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACCATTACAGTCTTCGCCCCACCCGTCACCTCTACGTCTTGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAAACGTCCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGCCAGCCCCCTGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCCC
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCCTGTGGAGGCCTTGTCTTCGTCGGGAACCAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCCTCCTCCTGGGCTGCAACAACGGCTCCATTACTACGTGGATGTGCAGAAGTTCCCCCTTGCGCAT
GAAAGACAACGACCTCCTTGTGACGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCACCGCCCTCAGTGTCTA
CCTCACCCCAAGACCAGTGACAGTGGGAACCTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGGGGT
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCCTCAGCTCTCCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACACGTGCGGACATGGTCTGT
GACTCGCTTCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCGGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGGCCAGTGCCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGGAGGGGCTCCCGCGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGCCATGTGGGACCTAACCAACGCCATGGA
CGGCCTCGGCCAGGCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCCAGCCCCCTACCCCGCATCTCCCTCACCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCGGCGCCG
TGGTGGGGGCAGCTTTGTGGAACGCTGCCAGGAACCTGGTGGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACTCCCTCACACCTCCCAAGATGAAGCTCAATGAACTTCCTTTTG
AACACGCAGCTGCCATGATGCCCTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA
ACCCCGGGTTCAGGGCCAGGGCCTCCTTGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCCTCTTTTCTG
GAAGCCAAAGTCACCTCCCCAATAAAGTCCTCACTGCC

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FIGURE 5446A

CGTTGCTGTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGCGGCCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCCGGTCTGTGTCCCTTGATCTGTCACAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCGGCCCGGCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCAGCAGCAGACGGCGTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGCGAGGAGCGTCGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGCGGAGGCGGCGAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGC
TGC CGCGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCAGGAGGTCTGCTGCCGAGGGGCCGGCTTGG
CCTGGGGCGTTACAGACTGTCAGCTGTGCTCCGAGCGCCTGGGGAATCCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTCCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGC GCGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAACACGCGCGGCGGGTACACGTGTGTGTGCCCGACGGCTTTCTGTCTGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCCGCGTGTCTCCGCGACGGCGGT
GTTTCGTGCCCCATTCTGCGGAACATCACTAAACAGATCTGTCTGTCAGCCGCGTAGGCAAGGCCTGGGGCCGGG
GCTGCCAGCTCTGCCCCCCTTCGGCTCAGAGGGTTTCGGGAGATCTGCCCGGCTGGTCTCTGGTTACCACTACT
CGGCCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCCAACCATCGCCTGGAGCCCCGGCTGAACCCCGGC
CCGATCCCCGGCCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTACGCGCAACCCCCAGGTCTGCGGCCAGGACGCTGCATTTCCCGGCCAGCGGT
ACACCTGCGCTTGCAGCTCTGGCTTCCGGCTCAGCCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAACTCACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCCGCTGCCGCCGCCGTGTGACCTCG
GGCGTGCAGAAACACGCCAGGCAGCTTCTGTGCGTGTGCCCCGCCGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCCTGTGTGGCCGAGGGGCCTGCAAGAACCTGCCTGGCT
CTTTCGCTGTGTTTGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCCCGGCCGTGTGACAACACGGCAGGCTCCTTTACTGTGCTGCTGCTGCTGCTTCCGCT
CCCGAGGGCCCCGGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCCCAAGCCCCCACCCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACACTGCTGGCTCCGAGTGCG
AGGATGTGGATGAGTGTGAGAACCACCTGCATGCCCTGGGCAGGAGTGTGTGAACTCGCCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCGGGTGCC
CTCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGGCCAGGCTACCGGG
CGCGTGGGTGCGGCCCGGCCCTGCGCAGACGTGAACGAGTGCCCTGGAGGGCGATTTCTGCTTCCCTCACGGCG
AGTGCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCCCTGGCTACCGACCCGACCCCGCGGAGCCTCTT
GCCTCGACGTTGACGAGTGACGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGATCTGTCTCCGGGACACCGCGCTGGCCCCGACCTCGCCTCCTGCTCGACGTGGACGAATGTCGCGAGC
GAGGCCAGCCCTGTGCGGGTCGACGCGCTGTGAGAACTCTCCCGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCAACGCGGCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTGTG
GAGCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACAGCCTGTGACCTGGCTATCAGCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAATG
TCGAAGGCTCCTTCTGTGTCTGCCCAACAGCCGGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTCTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGAGTGGGCGCCGGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCTGGCTCGGAATGTGACATGGCAGGAGTGTGCTGTACTG
TGGGTGAGGGCTGGGGCAGCGGCTGCCGCATCCAGCAGTGCCCGGCCACCGAGACAGCTGAGTACCAGTCAATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTGAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

5909/6881
FIGURE 5446B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCTCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCCTGGACATGACCCGCTATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCCGCACTCGGGGCCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCCTGGA
CCTGGAGAAGGGACCTACGGACGCCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCAC
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTTCCATTAAAA
ACCACCTATTTTCT

5910/6881
FIGURE 5447

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAAGTAGGCCATTTTCCCTGCCAGGTGTCTTTTTGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAAGTTCGGGCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAAGTCACTCATGAGTT
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAAACCAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCACCCCTGTTAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCCTGCTCCCGTGGTTTCAAATATTAGCCCTGGTCTTTTACACCCACTGCTCAGTCCCCAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAATGACTTCTCCATGCTCTCTCTCCCTAAAACCAACCAATTTCTCC
TCCAAAACCCCTGTACCCCAAGCCAGCAGCATTCCATCTCTCTCTACCCCAAGTCCCTTGGACTTTTTCAGC
TTTACCATCCCTTCCCTGGAGTCAGCAGACCCCTGTTCCCCACCGCTCCCACTGCCTCCTCCACCCGCTGCCAC
AGGGCCTGCTCCCCGTCATGTCTTCGGCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCCTCTTCTGTGACAGCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTACTCTCTGTGCGCCCCCAGTGGCGTCCCTTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCAGGGAGAGATGTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGGTCTGTGGGTGTTGCGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCTGTTCCACCCAGTGTGCGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACCAGGTCCGG
GAGAGCAACCTGCAGCTGACGGAATCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGGCCGTGGGT
GGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCTCTACCTGTGTTA
GCAGATCTGGCAACCCTGTAAAGGGGGTGCTAGATGGACCCGATTTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTCACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTCTGTCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCCCTCGGCCTCCCAAAGTGCTGGGATTACA
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAGTATTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCCACC
ATCCCAGCCCTGATCAGCCTGTCTGTGCATCCCCCATCCCAGCCAGGGCTTGGAGCAGCCTTGCTCACCCTGTG
TCCCTGCAATTGTAACACATCCAGGCACAAGAATAGCCGCCAGTGAAGTGAAGTGAACAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAAGTCTCATTATCCTGTTACCCCAACCCAGGCCACGTGTCCAAATACACTCCAGATG
CAAAATAAAAAGCTCTACGACA

5911/6881
FIGURE 5448

GAATTCCTGACTTCCTTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTTGGAGAAAACCCAGG
GCTAAAGTCACGTTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTA
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCT
TCTCCCAAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGCCAGGCCTTTGTCACTCT
TCAAGGAGGTGAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGAGCCACCCCGTGG
TGGGGGCTGTCCAGGGGCCTGTCCCGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG
GCCAGCCGCCCTACATGCCGCCCTTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACCGAGGGG
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACA
TCTTGTTCCTCACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCT
TCAAGGAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGG
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGC
ACCTTTTCCCCCATGCCTGCCCCCTTCCCCTGTTCTGGGGCCACCCCTTCCCCCTTGGCTCAGCCCCCTGAAGG
TAAGTCCCCCTTGGGGGCCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT
GTCCCAGACATTGCACCTGGCGCTGTAGGCCGAATTAAAGTGGCTTTTGTAGGTTTGGTTTTTCACAAAAAA
AAGGAATTC

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FIGURE 5449

MAVPETRENHTIYINNLEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF
PFYDKPMRIQYAKTDSDIIAKMKGTIVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQA
PRIMHHMPGQPPYMPFPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFTNLPEETNELMLS
MLFNQFPFGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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FIGURE 5450

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAGGGGGACAGAGCCCTGGGAGGCCGGGCGGGGCTCGG
GGGCCACCCCGGGGGCCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACCTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCACATCAACGAGGAGGTTCGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCGCCCGGGCTGCAGCCGCACGCGGAGCCCGGCGGCTACT
CGGGGCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCCTGGAATGGAGCAGCAGCAGGCCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCTCCGCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAGAGGCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCTTGTTGCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCCGAGATCGGAGTAGTGGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGCTCTACAGAGCCTGACCCCCACGTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCGAAGAGCCCTTTCTCCTATGGCTATGGAGGCACTGGGAAGAAGTCCACCAATAGCCGGTTTGA
ACTACGGAGACAAGTTTGAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGAAATGACGTGGAAC
TGTCTTTTACCAAGAAATGGAAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCCC
TCTATCCTCATGTCTGGTGAAGAATTGCGCAGTGGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCTTCCCGGGGTTTACCTTCATCCAGCACCTTCCCCCTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCTAC
GCCGGCAGCGGAATATGCTGGCCGCTGGGATGTCTGATCCAGCAGGCCACCCAGTGCCTCAACCGCCTCATCC
AGATTGCTGCCCCGAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTGAGCCAGAGACGAAAAA
TGAGACCATTGTAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCCACTGACGAGGACCTAAAAGACCGAACAA
TAAAGCGAACCGACGAGGAAGGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACTTCACGTTGC
CAGATGTTGGGGACTTCTTGATGAGGTTCTGTTTATTGAGCTGCAGCGGGAGGAAGCGGACAAGCTAGTGAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAAGCGCTTTGACAACCGAGGTGGTGGTGGCTTCC
GGGGCCGCGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGGCGGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCGCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCTCCGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACA
GCCCTGCTCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCTACAACCGGGAGGTTACA
GCCAGGGCTACACAGCCCCACCGCTCCACCTCCACCACCCTGCCTACAACCTATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCACCGCCACCCCTCACTGCACAGACCTACCCTCAGCCAGCTATAACAGTATCAGC
AGTATGCCCAGCAGTGGAACCACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCTCCACCAGCGCTGCTCGGCCCTCTCTGCCCCCGCCAGATCCCGTGGTGCTGGGGATGGGG
TCATCCCAGGGCTGCCTCCCTCCAGCCCACTGCCTCCCTCTGAGGGGCTTCTTCCCTCCATAGGGCCAGGCA
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTGTGTCCTCCCTCCCTCCAGCCTTCCACCTC
CTGTTCTTCTACCTTCTTCTTTTTGACTAAATAATCCCCACCTCCCTTGATCATAAGTGAGGCTACAGTGAC
TGAGGGGAGAATCCCTCCTGTTCACTCTCCCAACCCTGCTCCAGCCCTCAGCTTCCAGACCCCTCATGCAGTT
GGTTGTAAATTCCTCCAGGAGCTGTTTTACTGTCTACTTTTCAGGATTAAAAAAAATCAAACCTAAAAAAA
AAAAGTTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTTGGTAATTATGCGCTTTTTTTTAAAT
TTTAGAATTTGCTTTTTTACTGTGGGTGGGCTGTTGATATTTTCAAGATAAGCATTCTTTCTGAGTTTACG
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAAACC

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FIGURE 5451

GCCTGGGCGCAGCGGTGCACCCGGACCCGGAACATTCTCAGGCGAAAGTGTCTCTTGCGTGCGTGGGCCGGAGGT
TAGTGTGCGGGGCCCGCGGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCCGTGGCGACGGCGACGGCGG
CGAAGGAACCCGATAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCAGTCCCAT
CTAAACCCCAAGGACAAAGTGAAGCAGCTGAGGCAACACCAGTGGCCCTGGACAGTGACCTCCGGGGGTGAAA
ATGCAGCAGTGAGTGCTATGCTGCACGCTGTAGCCGCCAGCCGCTGCTGTTTGACGCCAGCAGCAGGGTGAAAC
CCGACTTGACAGAGCATGAGAAAGTGGCCATCCTGGCCCACTGTACCACGAGAAGCCACTGGTGTTCTTGAGC
GCTTCCGCACAGGCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCAACGTGCAGACTTCT
ACTGTGCTGAGGTGGCCCGGAGGGCACTGCCCGGCCCGCACCCCTGCGTACCCGCTGCGTAACCGGCGCTATG
CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGCCCCCTGCTAT
ATGAGCAGTACATCGGGCAGTATCTACCCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACCAGCCCCCAAGC
CCGGGTCCCCCGGAGACCTGCTTGCCCGCTCTCCAATTGCTGCTCCAGTCTACGAGGAGCGGGAGCTACAGC
AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCGCTGCTTGGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG
AAGACCAGAGGTGAGGCAAGGACTCGGAGGCCTGGGTTCCCGACTCGGAGGAGAGGCTGATCCTGCGAGAGGAGT
TCACCAGCCGCATGCACCAGCGCTTCTTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
CCGACTTCGACAACCTCGACATCGTGGCAGGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
CGCCACAGCCAGAGCTGGATGGGGACTGATGGCCGCCACCCCTTCCACCCGCTGCCCATCCCCATCCCCAACAA
GGCAGCTGATTCAGGCCTGCTCAGTGACCCCTTCTCTAGGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCAACCCCACTGTTTCTGGGGTTCCCTTTCTCATC
TCTCCACCCCTGCTCCTGCTCTGCTTTCTTGGTGTCTGTCTGGGCTTCTTTCTGTCTTTCTGTCTTTCTG
TCTCTCTCCCTACCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTCTCCCCCTCTCTCTCTG
CCTTAGGCTCTGTCTCCACCGCAGGGCCCAAGGTGAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCTTT
CGTGGCTGGAAGTGGCCAGTTTGGTTCCGGTGTGACCCCTAGGCCCCAGCGCAGCTGCTCCCGTGTCTGTCTGT
CTCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
CTTCTGCTCTACTCTGGGCCTCTTCTTTCTACTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGCCCCCTTCTTCCCCCTT
CCTCAAACCTGGCTGCTATAGGCAGCAGAACCCTGACCACTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
AGGCAGGGAGGATGGGGGCAGCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGAG
TGTAGAGGGAGGGGGGACTCTACCTTCTCAGCCCCACAGCCCCCTCTGCCCAACCACAATTTTCCCTTCTCTC
CGCCTTCTCTCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCAC
ACACAGCCTGCCCCAGCGTCCCTGCCCCAGCTGGCCGAGGGCCCGCCCCATGGAGCCCCCTGCCGCCCTGGGC
TAATGGGAGCCAGATGGCCGCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC
CCCCACACCCGGCTCCTGCTCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGCACACAGGGC
AAGGGTCACCAAGTCGGGGCCTAGGGACTCCTCATGCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
CTGAAGGACCTCAAACTGCCTCCTGGAGTCCACGGTTCTTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
ACCAGAATTAGAGCCAGACAGGGAAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTGAGGCCGAGCGAAGTGCCTGACACCGGGTTGGATCCT
CAGATGGCCCCATGAACTAGTGAAGTGGGTCAAAGGAGGCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC
ATCAGAGGCAGAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCCTAGAAACCACTTGGCTGTCTGGCCT
CTCAGGTGTGAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
GGTTTGAGAAGGGTCAGATGGTAGGCGGGCCTAACAAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA
TCAGGTATCTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCCAGCAGTGCTATGCCCTAGGTACTACC
AATATCACTCCTCTATTTCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTTACCTGCCTGTATTGTGCCCATTTTTAAAGAGCAGAGGGC
CTGGGCCACAGGAAAGGTATCAGCCCTTGGTGATAGGCACATTTTTACCAGTCTATCATTTGGTCATTAATTT
GTTTACAATATACTTTGCTATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5452

MEAVATATAAKEPDKGCIEPGPGHWGELSRTVPVPSKPDKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL
PVCSQQQGEFDLTEHEKVAILAQLYHEKPLVFLEFRFTGLREEHLACFGHVVRGDHRADFYCAEVARQGTARPRTL
RTRLRNRRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGRPACPLSNLLL
QSYEERELQQRLLQQQEEEEACLEEEEEEDSDEEDQSRGKDSEAWVPDSEERLILREEFTSRMHQRFLDGKDGD
FDYSTVDDNPDNDNLDIVARDEEERYFDEEPEPADAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGGCAGGGGGGACGCCCCGTCCGGGGCACCCC
CCCCGGCTCTGAGCCGCCCGCGGGGCGGGCCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCGCCGCCGCCCTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGACG
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGC CGGGGACCTC
TTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCAGACCGCCTCCCTTTGCCGCCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCATTCCGGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGCACCCCTGACGCGCCCTTCATCCCCGGCCTGTCTCCTG
AGCCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCCTATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCCGGTCCA
AGCCTCCCTCCACCACTGCGCCCTTCTCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCTACCTTTTGCCGG
GAGACCCCCAGCCCTGCGAGGGCGGGGCTCCCCACCACACCAGCCCTGTTCCGCGCTCTCGGCAGTGCCGGGGG
GCGCGCCTCCCCATGCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCTGGCCGGCGCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCCG
GCCGCTGCCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGGTGGCCGGGGAGAGTGCAAAACCG
AGCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTACCCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAAGTGGAGCAGCACGTGGAGCTGT
ACCAGAAATACAGCAACAATTCCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGATGTACCCGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTGCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCGCCGAGGTG
ACCTGGCCACCAATTCATGGCATGAACCGGCCCTTTCTGCTTCTCATGGCCACCCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAACTGCTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
CTGCTCGGGCCCTGCCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGAGGCGCTGGAGCCGCTGCCCATCGTGTACTACGTGG
GCCGCAAGCCCCAAGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCGC
CCCGCCCCCGCCGAGGCCCGGCCCAACCCGCCCCGCCCCGCTGCCTTGCCATGGGGGCTGTATTTAAGG
ACACCCGTGCCCCAAGCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTCAATTGGGCG
CCTGCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCCTCCTCTGCCTG
TCTGCACTATTCTTTGCCCGGCATCAAGGCACAGGGGACCAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCTTACATTAATGAATCATTGAGTACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCTGCCCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTAGGCCAGGCGGGGTGGCTCACC
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTGAGACCAGCCTGGGT
AACATAGTGAGACCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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FIGURE 5454

CAGCCGCACGTGGGCTCGGCGCGATCGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTGCGGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTGGCGGGTGTGTACGGGCCGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTGTCAGAGAAGA
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG
TGGTGTGTCAGGTTGTGTCAGCGATGCCGGCTCTCTCTGGCCTGTTGTCTGAATGCCGCCTGCAITGGCATTGGTGG
ATGCAGGTGTGCCCATGCGGGCTCTCTTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCCTGGCTGCGGCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTGAGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTGCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCAGCCTTGCCCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCTTGGCCTGTGACAGCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5455

MEEETHDAKIRAENG TGSSPRGPGCSLRHFACEQNLLSRPDGSASFLOGDTSVLAGVYGPAEVKVSKEIFNKAT
LEVILRPKIGLPGVAEKSRERLIRNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRA
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDTELQQCLAAQAASQHVFRFYR
ESLQRRYSKS

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FIGURE 5456

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTTTCATC
TCTGGATGACAAGCCCCAGTTCCCAGGGGCTCGGCGGAGTTTATAGATAAGTTGGAATTCATCCAGCCCCAACGT
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCCAGCGAGGACCCCCACCT
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGCACGCACGTGGGGAGTGCCGCCGC
CCTGGACAACACGGACCTGGTGTTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCTGGA
ACTATTATGCCCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC
AGCCAAGCGGGCCAATGCCAACAGGGTCGTATCTGTTACTTCGGCGAGGGGCGAGCCAGTGAGGGGGACGCCCCA
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCCATCATCTTCTTCTGCCGGAACAATGGCTACGCCATCTC
CACGCCCACCTCTGAGCAGTATCGCGGCGATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG
CGTGGATGGTAATGATGTGTTTGCCGTATACAACGCCACAAAGGAGGCCCCGACGGCGGGCTGTGGCAGAGAACCA
GCCCTTCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTTCAGCGTACCGCTC
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACTATCTGCTGAGCCAAGG
CTGGTGGGATGAGGAGCAGGAGAAGGCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC
CGAGCGGAAGCCCAAACCCAAACCCCAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCGCCAGCTCCGCAA
GCAGCAGGAGTCTCTGGCCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA
CCTGCTCAGCCCACCCCAACCCATCCTCAGCTACCCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG
ACAGCACACCACTGTCTTCCCCAGTCAGCTCCCTCTAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTACCC
CTGCTCCTCCCGGCTGTTACATTGTCAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTAGCCCCCTCTTC
ACCTGTTGTTACAGTGCTTCTCCCAGGGGCTGGGTGAGGGCACATTAGGACTAGAAGCCCCCTCTGGGCATGGG
GTGGACATGGCAGGTACGCTGTGGAATTGCGCAGGTGCGAGTGCCAGCAGAGGTCACGAATAAACTGCATCT
CTGCGCCTGGCTCTCT

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FIGURE 5457

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQFSSLDDKPQFPGASAEFIDKLEFIQPNVISG
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRILYESQRQGRISFYMTNYGEEGTHVGSAAALDN
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAANKR
ANANRVVICYFGEGAASEGDAHAGFNFAATLECPPIFFCRNNGYAISTPTSEQYRGDGAARGPGYGIMSIRVDG
NDVFAVYNATKEARRRAVAENQPFLEAMTYRIGHHSTSDSSAYRSVDEVNYWDKQDHPISRLRHLLSQGWWD
EEQEKAWRKQSRKVMFAFEQAERKPKPNPDLFSDVYQEMPAQLRKQESLARHLQTYGEHYPLDHFDK

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FIGURE 5458

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCCTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTGGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCCTCCGCTGAAG
GAGCTCCAGTCCCTTGTCGCTGCAGCGCTGCTCCACGTGGACGACTGGTGTCTCAGCCGCCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCCTTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC
ACCCTGTTCAGGCAGCCCTTTCCATGCCCTGTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG
AGAGCCACACTCACCTTGTTCAGGAGACTCTTCTCAAACGTGTCCTTATGTGAGTGCAGTGCCTTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCAGGCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTCAGTTGGCAGTTTTTTGAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGGTTGTGCTTCTGCC
TCTGGACGCCGAGTGCATGTGGCTTCCCAGCACCCAGCTCCTGAAGCACCAGGCGGTCAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCAGTGT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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FIGURE 5459

MAAPWASLRLVAPMWNGRIRGIHRLGA AVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEKNRSYT
WLEKQHGPYGAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWNFCVPVEAVDAGDCDINYEGLDNLLRLKEL
QSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRI SERGLACLHHLQNLRRLDISDLPAVSNPGLTQILVEEM
LPNCEVVGVDWA EGLKSGPEEQPRDTASPVPA

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FIGURE 5460

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAG
ATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTTCTCCTTTCGCCGCCCTCCTTCCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTCCCTACCCTGTCCCCATTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGATACCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTGATAATGAATATTGACAAGTGTCTTTTGAATAAAGAACCAGTCC

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FIGURE 5461

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG
CGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCC
AGGAAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTCGCCGCCCTCCTTCCGCCGCCCGCTCCTTCCCTGTGTC
TTTTTCACCAAACCTGTCCGCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAAATTACCTCTTT
TGTTGTTTTGTAGCAACCTTTTGTAAAACATTCCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTC
TCACTTT

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FIGURE 5462

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA
GAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGCCACTGATTTAGCCATGTGAAACTCATCTCATTACCTTTTCT
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT
AGCTTATGTACAAAACTTTT

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FIGURE 5463

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC
TAAAAAGATGAAGAAAAGATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAGGAG
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG
TAGAACGCCTCAGTCTCACCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC
CTTTGGAAACAACATTTAAGGGAATGTGAGCACAAATGCATAATGTCTTTAAAAAGTATGTTGTGATG

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FIGURE 5464

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLREAKHIAEEADRKYE EVARKLVIIEGDLE
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT
IDDLKDLKCTKGEHLCTQRM LDQTLLDLNEM

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FIGURE 5465

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT
CGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCGAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT
GGAAGGCTGCTTTCTCCTTT

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FIGURE 5466

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGACTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTCTAACCTTT
GATGACCGTGACTCCGTGGGTGGCTATGGCGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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FIGURE 5467

MSKSECPEEPEQLRKLFIGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY
GKIEVTEIMTDRGSGKKRGFAFLTFDDRDSVGGYGGSSSSSSSYGSGRRF

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FIGURE 5468

CGCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCTGGCTGGCAGCGCGGAGCCGACGATGCCT
GGAGTTACTGTAAAAGACGTGAACCAGCAGGAGTTCGTTCAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG
CTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG
ATCTATGGGGGACGTCAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGCAAACTGACACCTCAGGGA
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGGGTT
AATAAATTGCCTCATTCGTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5469

MPGVTVKDVNQEFVRLAAFLKKSGKLKVP EWVDTVKLAKHKELAPYDENW FYTRAASTARHLYLRGGAGVGSM
TKIYGGRQRNGVMP SHFSRGSKSVARRVLQALEGLKMVEKDQD GGRKLTPQGQRDLDR IAGQVAAANKKH

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FIGURE 5470

GGGCGCCCCGCCGGTCACTTCCGCGCGGACACCAGCCTTGCAGAGCCCAGGGAGATCGAAGACTTCGCCCCGAGGG
GCGGCCTCCCCAGGCCCTCCCGGCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCCCCAAGGAGGCCAAGAAGGCCCTTCTGGACTTCTACCACAGCTTCTGGAGAAGACA
GCGGTTCTCGGGTGCCGGTCCCTCCCAACGTGCCTTTGAACTTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGCGGTTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCCGCGCAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCCAGCTGGAGGCTTGGGTTGGGCGGGAC
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATACC
ATCTCTACCGACGAAGAAAAGAGTGTGCGGTGGTCAACGCCATTGGCCTGTACATGCGCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAATTTCTCCGGAAGAGGTGATGGGGAACCGGCGGTTCGGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCAGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTCTGCACCCTCTGTCCCTGGAC
AGCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGCCCCAATGAGCCTG
GAGTCTTGGCGCCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGGAG
CCGGGGCGGTTCGGGACTGGAGCTTGAACAGAAGAGCCTCCCGGCTGGCGGGAACCTCGTCCCCCAGACACCTG
CACAGCCTGCCAAGAGCCAGGTGAAGCGGCAGGAGTTCATCAGCGAGCTGCTGGTGACAGAGGCGGCCCCAGTG
CGCATGCTGCGGGTGCTGCACGACCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG
CAGAACATCTTCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCTGATCGCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCGGTTTGATGGTGCTGAGGGCTCCTGG
TTCCAGAAAATCTCTCCCGCTTCTGACCGCGCCAGTCAATTGCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCGCCGCGGTGCCGCCGCTGCAGCTGAAGGACATG
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATTCTACACCACGTCAACCAAGCCGTGCGT
GACATGGAGGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCCTGGACTTGTCCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATACCAAGAAGAAATTGGTCCACGAGGGGCCACTGACGTGGCGG
GTGACTAAGGACAAGGCAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCTCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGGACACTGACGCCCCACGCCCGATGGCAAGACCATGCTGCGGCCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAAGCCTTCTACGTCTTTTTACCTGGGAC
CAGGAGGCCCAGATATACGAGCTGGTGGCACAGACTGTGTGCGGAGCGGAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGATCCCTGAAAGTCCCTGCCCTGCTCTCGCCCTAAGCCCCGCGCCAGCCGAGCAGCACCAGAGAA
CCCCCTCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCCGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAAGTGCTG
TCCCTGAAGCAGCTTCTGTTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCA
GGGGCGGGCCCCCTGAGCCCAGCAGGACCCAGGAAATCCAGGAGAACCCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTGTGCCCC
CAGCCTGGCTGCACTTGAGGTTCCCGCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACCACCCCCACCCACACAGCTGCCGAGCATCTCACACCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCCAGCTGGGGTTACTGGCCCCGCATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTG
GGGACTCAGGGCTCCATTCTGGAGGGCACCACGGTGACCCGGGCCATCTCAGTATTGCCTGTGGGGGCCACCCCT
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTATACCCTGAATTGGAGGGTTTATTTTTTAATATATATTAT
CTAAGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5471

MEDFARGAASPGPSRPGLVPSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPL
LCCLHADMLGSLGPKEAKKAFIDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV
GRQLEDFRSKRLMGMPWEQELAQLEAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKP GATD
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREP GADAPLELGDSSPQGPM SLES LAPPESTDEGAETESP
EPGDEGEPPGRSGLELEPEEPPGWRELVPD TLHSLPKSQVKRQEVISELLVTEAAHVRMLRVLHDLFFQPM AECL
FFPLEELQNIFFPSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFC SRQSFAL EQ
LKAKQRKDP RFCAFVQEAESRPRCRLQLKDMIPTMQRLTKYPLLQSIGQNT EPTEREKVELAAECCREILH
HVNQAVRDMEDLLRLKDYQRRDL SHLRQSSDPMLSEFKNLDITKKLVHEGPLTW RVTKDKAVEHVHLLDDLL
LLLQRQDERLLLKSHSRTLTP TPDGKTMLRPVLR LTSAMTREVATDHKAFYVLF TWQEAQIYELVAQTVSERKN
WCALITETAGSLKVPAPASRPKPRSPSSTREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA
TALRKVLSLKQLLFP AEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEELEEEFCRLRP LLSQ
LGGNSVPQPGCT

CCGCGCGAGCCTCTGTGCGGTGGGACCAACGACGCGGACGGACGGACGCGCGCACCTACCGAGGCGCGGGCGCTGC
AGAGGCTCCAGCCCAAGCCTGAGCCTGAGCCCGCCCCGAGGTCCCCGCCCGCCCGCTGGCTCTCTCGCCGCG
GAGCCGCCAAGATGGGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAAGTGTCAGTGGAAGAGGTCTGCCGGAATAACA
CAGACTGTGTGAGGGTTTGACCCACAGCAAAGCCAGGAGATCTTGGCCCGGGATGGGCCTAACGCACTCACGC
CACCGCCTACCACCCAGAGTGGGTCAAGTTTGGCCGCGAGCTCTTCGGGGGCTTCTCCATCTGCTGTGGATCG
GGGCTATCCTCTGCTTCTTGGCCTACGGTATCCAGGCGGGCACCGAGGACGACCCCTCTGGTGACAACTGTACC
TGGGCATCGTGTGGCGGCCGTGGTGATCATCTAGGTGCTTCTCTACTACCAGGAGGCCAAGAGCTCCAAGA
TCATGGAGTCTTCAAGAACATGGTGGCCAGCAAGCCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAAC
CTGAGGAGGTGGTGGTGGGGACCTGGTGGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT
CAGCCCACGGCTGCAAGGTGGACAACCTCTCCCTGACTGGCGAATCCGAGCCCCAGACTCGCTCTCCCGACTGCA
CTCAGACAACCCCTTGGAGACTCGGAACATCACCTTCTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG
TGGTGGTGGCCACGGGCGACCGCACTGTCTATGGGCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA
CGCCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACCGGCGTGGCTGTCTTCTGGGTGTCTCCTTCT
TCACTCTCTCCCTCATTCTCGGATACACCTGGCTTGAGGTGTCTCTTCTCATCGGCATCATCTGTGGCCAATG
TCCCAGAGGGTCTGCTGGCCACTGTCACTGTGTGTCTGACGCTGACCGCAAGCGCATGGCCCCGAAGAAGTACC
TGGTGAAGAAGCTGGAGGCTGTAGAAACCTGGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCCCTCA
CTCAGAACCGCATGACAGTCCGCCACATGTGGTTTGACAACAGATCCACGAGGCTGACACCACTGAGGACCACT
CAGGGACCTCATTGACAAGAGTTCGCACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG
TCTTCAAGGGTGGTCAAGGACACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC
TCAAGTGATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCCT
TCAATTCCACCAACAAATACCAGCTCTCCATCCATGAGACCGAGGACCCCAACGACAACCGATACCTGCTGGTGA
TGAAGGGTGGCCCCGAGCGCATCTTGGACCGCTGCTCCACCATCCTGTACAGGGCAAGGAGCAGCCTCTGGACG
AGGAAATGAAGGAGGCCTTCCAGAATGCCCTACCTTGAGCTCGGTGGCTGGGGCAGCGCGTGTGGTTTCTGCC
ATTATTACCTGCCCGAGGAGCAGTTCCCCAAGGGCTTTGCCTTCGACTGTGATGACGTGAACCTCACCACGGACA
ACCTCTGCTTTGTGGGCCTCATGTCCATGATCGACCCACCCCGGGCAGCCGTCCCTGACGCGGTGGGCAAGTGTG
GCAGCGCAGGCATCAAGGTCTCATGGTCACCGGCGATCACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCGCCCGGCTCAACATTCCCGTCAAGCAGGTAAAC
CCCGGGATGCCAAGGCCTGCGTGATCCACGGCACCGACCTCAAGGACTTCACCTCCGAGCAAATCGACGAGATCC
TGCAGAATCACACCGAGATCGTCTTCGCCCGCATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTCTAGA
GACAGGGTGCATTTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCGCTCTGAAGAAGGCCGACATTGGGG
TGGCCATGGGCATCGCTGGCTCTGACGTCTCAAGCAGGCAGCTGACATGATCTGCTGGACGACAACCTTGGCT
CCATCGTCACAGGGGTGGAGGAGGGCCGCTGATCTTCGACAACCTAAGAAGTCCATTGCCTTACACCTGACCA
GCAATATCCCGGAGATCACGCCCTTCTGCTGTTTCATCATGGCCAACATCCCGCTGCCCTGGCCAGCATACCA
TCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGTGCCGAAAGCGACATCA
TGAAGAGACAGCCAGGAACCCGCGGACGGACAAATTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCGAGA
TTGGAATGATCCAGGCTCTCGGTGGCTTCTCTTACTTTGTGATCTGGCAGAAAAATGGCTTCTTGGCCGGCA
ACCTGGTGGGCACTCCGGCTGAAGTGGGATGACCGCACCGCTTCTTTGTGAGCATCGTTGTCTGCTCCAGTGGG
CATACGAGACAGGAGGAAGGTGGAGTTACCTGCCACACGCGCTTCTTTGTGAGCATCGTTGTCTGCTCCAGTGGG
CGGATCTGATCATCTGCAAGACCCGAGGAACTCGGTCTTCCAGCAGGGCATGAAGAAACAAGATCTGATCTTCG
GGCTGTTTTGAGGAGACGGCCCTGGCTGCCCTTCTGTCTTACTGCCCGGCGATGGACGTGGCCCTGCCATGTACC
GTCTCAAGCCAGCTGGTGGTTCTGTGCCCTTCCCTACAGTTTCTCTATCTTCGTCTACGACGAAATCCGCAAAC
TCATCTTGCACGGAACCCAGGGGGTTGGGTGGAGAAGGAAACCTACTACTGACCTCAGCCCCACCACATCGCCC
ATCTCTTCCCGTCCCCAGGCCCAGGACCGCCCTGTGAGTCCCCCAATTTTGTATTCTGGGGGGAGGAGCCC
TCTTCTCTGTGGCCCCACCTTGGCCCCCACCCTCCACTATCTCTGCGCCCCCACTCTGGCTGGCTTCTCT
CCCCGCCCCAAGCTCTCTCTCTCTTTTCTGTGTGAGTTTCTCTCCCTCTCTCACCCTCTATCCATTCC
TCCCGCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTCTGG
ACAATTATCAAATATATCAGTGGGGAGAGAG

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FIGURE 5473

MGDKKDDKDS PKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALT P P P T
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDP SGDNLYLGIVLA AVVIITGCF SYYQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLRI ISAHGCKVDNSSLTGESEPTQTRSPDCTHDN
PLETRNITFFSTNCVEGTARGVVVATGDRVTMGRIATLASGLEVGKTP IAIEIEHFIQLITGVAVFLGVSFFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR
MTVAHMFWDNQIHEADTTEDQSGTSFSDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCTILLQGKEQPLDEEMK
EAFQONAYLELGG LGERVLGFCHYYLP EEQFPKGFAFDCDDVNFTTDNL CFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAGVGI ISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNH
TEIVFARTSPQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGR LIFDNLKKSIA YTLTSNIPEITPFLLFIMANIP LPLGTITILCIDLG TDMVPAISLAYEAAESDIMKRQ
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLED SYGQQWTYEQ
RKVVEFTCHTAFFVSIVVVQWADLIICKTRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKP
SWWFCAPFYSFLIFVYDEIRKLILRRNPGGWVEKETYY

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FIGURE 5474

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACCTGCAGAGGTGCCTGTGTCTCAGCCT
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC
AGGGCCCCGAGGAACAACAGTGGAGAAGCAGGCGGGGAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG
CTCTTTCTCTACCCCCACCAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCACCGGCGAGCCACACCCGAATCCTCTG
CATTTCATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCTTTATCACCGGCGTACTCATGGGGTAGGG
GGTGTCCCTCTGCCCCACAACACCAGTCCCACCAGAGGAACCTGTATTGGTTTCCCTGAGCCAGCCCCAGCAGAG
ACTGGAGAGCCAGAGGCCCTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCGCTGCCCCAGGCACCTAC
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCCTTGACGTGACCCGGCACCAACGTTTTGTGCATCGGCTG
GAGCGGCGCCATAAATGCAGCATTTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACTGCGCACA
CACACAGGGGAGCGGCCCTTCCCTGCCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCGCCAC
CGGCTCACACACACAGGAGAGCGGCCCTACCGGTGTGGGGACTGTGGCAAGGCTTTCACGCAAAGCTCCACACTG
AGGCAGCACCGCTTGGTGCATGCCCAGCACTTCCCTACCGCTGCCAGGAATGTGGGTGCGTTTTACCGTCTCT
TACCGCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGAGTGCCCCGCTCCTTC
TTGCTGCGTGGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT
GGGGCTGCCCTTCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCCAGGCCCCACGGCGC
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGGCCATGCAGCT
GCTGGGCCTGGAGAGGTCTGGCTAAGGAGCCCCCTGCCCCCTCGAGCCCCACGGGCCACTCGTGCACCAGTTGCC
TCTCCAGCAGCCCTTGGAAGCACTGCTACAGCATCCCCTGCGGCCCTGCCCCGCCCGGGGTCTAGAGTGCAGC
GAGTGCAAGAAGCTGTTTCAGCACAGAGACGTCACTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC
CCATGTCCAGACTGTGGCAAAGCGTTCCGTCAGAGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG
CGGCCCTTTGCCTGTGAAGTGTGTGGCAAGGCCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGATCCAC
ACAGGCGAACGACCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCCAACCTCTGGAAGCACCGC
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTTGGCCTGGCC
GTCATGGAGACTGCTGTGGAGGCGCTACCCCTGTTGGAAGCCATTGAGATCTACCCCTTGCCGAGGCTGAGGGG
GTCCAGATCAGTGGCTGACTCTGCCCCGACTTCCTCTTTGGCACCTCCATTCCCTGTTGCTGAAGGCCCTCCAGCA
TCCCTTAAGCATCTGTACATACTGTGTCCCTTCCCTTCCCATCCCCACCACCTTGTAAAGTTCTAAATTGGATT
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCCCTTGACACACATAAAGGTGCCCCCCCCACCTTCCACCTCTTAGCA
CTGGTGACCCCAAAAATGAAACCATCAATAAAGACTGGGTTGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5475

MFKKKSHVRNHLRTHHTGERFFPCPDCSKPFNSPANLARHRLTHHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF
PYRCQECGVRFRPYRLLMHRYHHTGEYPYKCRECPRSFLLRRLLEVHQLVVHAGRQPHRCPSCGAAFPSSLRLR
EHRCAAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA
SPAAPARRRGLECECKKLFSTETSLQVHRRHTGERPYPCPDCGKAFRQSTHLKDHRRHTGERPFACEVCGKA
FAISMRLAEHRRHTGERPYSCPDCGKSYRSFNLWKKRKHQQQHQAQAVRQQLAEAEAAVGLAVMETAVEALPL
VEAIEIYPLAEAGVQISG

TCTGAGAGGCGAGGCCGGGTGAGGCGGCGAGGGCGGCCGACGGGCGCGGGACGGGACGGGGCAGCGAGGGCGCC
 GGGAGCCGCGGCCCGGAATCGGGGCGCTTCGCCCGGGCCCCCAGCATGAAAGACCCCGCGGACACAGGGTTTG
 CCTTCCCGGATTGGGCCCTACAAGCCAGAGTCGTCCCTGGCTCAAGGCAGATCCAGCTGTGGCACTTTATCCTGG
 AGCTGCTGCGGAAGGAGGAGTACCAGGGCGTCATTGCCTGGCAGGGGGACTACGGGAATTTCGTATCAAAGACC
 CTGATGAGGTGGCCCGGCTGTGGGGCGTTTCGCAAGTGAAGCCCCAGATGAATTACGACAAGCTGAGCCGGGCC
 TGCCTATTACTATAACAAGCGCATTCTGCACAAGACCAAGGGGAAACGGTTACCTACAAGTTCAATTTCAACA
 AACTGGTGCTGGTCAATTACCCATTCAATTGATGTGGGGTTGGCTGGGGGTGCAGTGCCCCAGAGTGCCCCGCCA
 TGCCGTGCGGTGGTAGCCACTTCGCCTTCCCTCCCTCAACGCCCTCGAGGTGCTGTCCCCACCAGGAGACCCC
 GCTCACCACCAGCCTGCTCTTCATCTTCATCTTCCCTCTTCTCGGCTGTGGTGGCCCGCCGCTGGGCCGAGGCT
 CAGTCAGTGACTGTAGTGATGGCACGTACAGAGCTGGAGGAACCGCTGGGAGAGGATCCCCGCGCCGACCACCCG
 GCCCTCCGGATCTGGGTGCCTTCGAGGGGCCCCGCTGGCCCGCCTGCCCATGACCTGGTGTCTTCCGAGTCT
 ATCCCCGGCCTCGGGGTGGCCCTGAACCCCTCAGCCCTTCCCTGTGTGCCTCTGGCCGGTCTGGATCCCTGC
 TGCCCCCTCAGCTCTCCCCGGCTCTGCCCATGACGCCACCCACCTGGCCTACACTCCCTCGCCACGCTGAGCC
 CGATGTACCCAGTGGTGGCGGGGGGCCAGCGGCTCAGGGGGAGGCTCCCACTTCTCCTTCAGCCCTGAGGACA
 TGAACCGGTACCTGCAGGCCACACCCAAAGCGTCTACAACTACCACCTCAGCCCCCGCGCCTTCTTGCCTACC
 CTGGGCTGGTGGTGGCCCCAGCCCCAGCGCCTGACAAGTGCCCGCTGCCGCCATGGCACCCGAGACCCACCGG
 TCCCCTCCTCGGCCTCGTCATCCTCTTCTTCTTCTTCTTCCCTCCCATTCAGTTTAAAGTCCAGCGCCCCCACTCG
 GACGCGGGCAGCGGGCAGCTGGGGAGAAGGCCGTAGCCGCTGCTGACAAGAGCGGTGGCAGTGCAGCGGGGCTGG
 CTGAGGGGGCAGGGGGCGCTAGCCCCACCGCCCCGCCACCACAGATCAAGGTGGAGCCCATCTCGGAAGGCGAGT
 CGGAGGAGGTAGAGGTGACTGACATCAGTGATGAGGATGAGGAAGACGGGGAGGTGTTCAAGACGCCCCGTGCC
 CACCTGCACCCCTAAGCCTGAGCCCGGCGAGGCACCCGGGGCATCCAGTGATGCCCTCAAGCTACGCTTTA
 AGCGGCGCTGGAGTGAAGACTGTGCCTCGAAGGGGGTGGGGGCCCGCTGGGGGCTTTGAGGATGAGGGTGAGG
 ACAAGAAGGTGCGTGGGGAGGGGCTGGGGAGGCTGGGGGGCCCCCTACCCCAAGCGGGGTGAGCTCTGACCTCC
 AGCATGCCACGGCCAGCTCTCCCTGGAGCACCGAGACTCCTTGAGGGCTGTGGGCAGGGGACCTGTGTGCCCCGC
 ACCCCCCATGCTTCTTTTGTGCCTTAAGCCCCCTATGCCCTGGAGGTGAGGGCAGCTCTTGTCTCTTCCCT
 CCTCCTCCCTTTCCCTCCCCACATTTTGATAAACTTTAATTTCTTTTTTTTAAAAATGGTGGGGGTGGGTGG
 GTGCCCAGGGCTAGGGGCTATTCCCTGTCTCTGTGGGTTCTAAGCTCTGGGCAAATTGGTGGTAGGGGGAGGGA
 GGGGGAAGTTAAGGGGGTACCTCCATTCTGGGGAATTTATATTTGAATTGAGGCTTTGGCCTTTAACACCCAGGA
 ACTTTTCTATTACAATCGCTTAGGAAGTAAAGCCTTGTCTCCCTCCCTGTTCTCTGCTTCTGTACCCCTCTGAC
 CCACCGCTCTGCCCCACTCCCAGCCCTCCTCAGCCCCAGCCCTGCCCCTGCCCTCCAGGGGGCCATGAGT
 GCCTAGGTTTCTCATACCCACAAAGTTCACAGCGGGGAGGGGAGGACAATTTTATAATGAACCAAAAATTCCAT
 GTGTTGGGGGTGGGGGGCGGAGGAGGTGAGGGGTGCCGCCATGGGCCACAAATCTCTACAAGTGCCCTGCTAT
 CCTCTCCCACTCCCCACCCAGCACCGGTCCAACCCCTTCATCCCCAGCTGCTCCTAGGACTGGCCCATGGGCA
 GCGGGGTGGGGGGATGGGAAGGGGGTGCCTGAAACCAAACTGGAAGCCCCCTCTGCCTCCAGCTGGGGCCTCT
 GGGGTGGGGTGGGGGGCTGTGGTCAAGCCTTATTCTGTATTGGGGACTGAGGGTGGGGGGAGTAGAGGGGCCGT
 GGAGAATGTATTCAAAACAATAAACTTTGGACCTTTGGAAAA

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FIGURE 5477

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIAWQGDYGEFVIKDPDEVARLWGVKCKPQ
MNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSGGSHFRFPSTPS
EVLSPTEPRSPACSSSSSSLSAVVARRLGRGSVSDCSDGTSELEEPLGEDPRARPPGPPDLGAFRGPPLARL
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPQLSPALPMTPTHLAYTPSPTLSPMYPSSGGGGPSGGGG
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPLVVPQQRPDKCPLPPMAPETPPVPSSASSSSSSSSSPF
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVEVDISDEDEED
GEVFKTPRAPPPAPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDGEDEKDKVRGEGPGEAGGPL
TPRRVSSDLQHATAQLSLEHRDS

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FIGURE 5478

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG
GCCCATCTCAGCCCCCTTCTGCAGATGGCGCATCCCCTGGCAGGGGCTCCTGCTCACAGCCTCACTTTTCACCTT
CTGGAACCCGCCACCCTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA
CCCCAATGCATCCCTGCTGATGCGGAACGTCACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT
AAATCTTATGAGTGAAGAAGTAACTGGCCAGTTCAGCGTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAACCTGAGACTCAGAACACAACCTACCT
GTGGTGGGTAATGGTCAGAGTCTCCCGGTCAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT
ACTCAGTGTCAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCAGCGAGTGCAAACCTCAGTGA
CCCAGTCACCCTGAATGTCTCTATGGCCAGATGCCCCACCATTTCCTTCAGACACCTATTACCATGCAGG
GGTAAATCTCAACCTCTCCTGCCATGCGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCAATGGCACATT
CCAGCAATACACACAAAAGCTCTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCTGCCACACCAC
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCACAGTCTCTGATGCTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTCAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTATTCTTCCTCAAAGCATTGCAATCAGC
TACCATTCAAAATTGCTTCTTCTCAAGATTTATGGAATACTCTGACGAGTACTCTGAACACAAGTTCCTGA
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACCTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA
AACACAGAAGGAAAAAACATGAATTTCAATTGAACATAATAATGAGGATAATGTTTTAAGATTTTTTTTTT
TTTTTGAGATGGAATCTCGCTCTGTGCCCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC
CTCCTGGGTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG
CTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCTGCCT
CAGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAGATTTTTTATTGAAAA
ATTGCCAATTCTTAAGTGTTTTCTTTTTAGATTATGAATTTCTTTATCTTTTAAGCTATCTATACCTTACTG
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGCTCCCTACCTGACTGCCACAGAAC
TGGGCAACTATTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTCAGTGAGAACTGTCTGT
CTTTATAATGGGATATAGTTTAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATTTGAGAAAAAT
ACAGAGAATGATAGATTAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTTACGTATGAGATCCTTTAGT
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTCTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC
AGACTCCTAGACTCACTTGTTCTCACTGTCTGTTTAATTTAACCCAGGCATGCAATGCTAGATAATAAAATTGC
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5479

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLL VHNLPQDPRGYNWYKGETVDA
NRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS
SNN SNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTLTL LSVTRNDVGPYECEIQNPASANF
SDPVTILNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH
TTNSATGRNRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

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FIGURE 5480

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCCAGGAAGCAGCGGCGGGAGCGCACCACCTTCACCCGGAGCCAA
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCGTGAGGAGGTGGCTCTGAAG
ATCAATCTGCCTGAGTCCAGGGTTCAGGTTTGGTTCAAGAACCGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG
CAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCGGCCTGCCAAGAGGAAGCGGGGCACGTCCCCA
AGACCCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGATTCTACAGTCCCCCTCTGCCCGGGCCCTCA
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCTTTGCCTGAGGCGCAG
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT
TTCTGCTCTTCCCCCTCCGCCTATGGGTCTCCGAGCTCCTATTTTCAGCGGCCTAGACCCCTACCTTTCTCCCATG
GTGCCCCAGCTAGGGGGCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCTTGGCCCAGTCCCCC
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC
TGGAATTACCTACAATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

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FIGURE 5481

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAKTQYPDVYAREEVALK
INLPESRVQVWFKNRRRAKCRQQRQQKQQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS
GSPTTAVATVSIWSPASESPLPEAQRAGLVASGPSLTSAFYAMTYAPASAFCSPPSAYGSPSSYFSGLDPYLSPM
VPQLGGFALSPLSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFIIL

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FIGURE 5482

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCCT
GGGGCTGCGGGCCACTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCAGTTCTTGGAAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTGTCAGAGGCCCCAAATGAAAACTCTTCTTCTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAAAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCTCGA
GAACACATCCAAAGTCCCTGCCCCCAAAGACGTCTCGCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCGGCTCCT
CAACCCCTTCTGCAACAAGGGCCAAGCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTCTTGGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCACGCTGCACACCAAGCCGTCCAGGCACCCGCGTGGAGGTGGCGCCTGCCGGAGCTTCCTACAA
TCCATCCTTTGAAGACCACCAGACCTGCTCTCAGCGGCCACAGAGTGGAGTTGCAGCGGCAGAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAGGGGGAGCCAGGCCAGGGCGAGGGGCCGAGGCTGGGGATGCCGA
GGTCTGTCCACGCCCCGCCGCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCTTGCGGGCCGCCCGGCTCCGGCACCAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGGCGGCGCAGAGCGGCGGCAGGCGCGGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCTGAAGCCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

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FIGURE 5483

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTACGCTGGCTGAAGCGGGGCGGGGCACGGGGCC
AGCAGCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCCGGCTCCCGCG
TGGGGCCTGAGCCCACCACCGACTGCTTTGTGGCCGTATGCACGGGGACACTGAGGGCACCGTGCCCGGCAACG
CCCTCGTCGTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCTTTCGAAACACCTTCCTCAACAGGTTTCATGT
GTGCCCAGCTCCCTAATCAGGTCCTGGAGAGCATCAGCATCATCGACACCCCGGGTATCCTGTGGGTGCCAAGC
AGAGAGTGAGCCGCGGCTACGACTTCCCGGCCGTGCTGCGCTGGTTTCGCGGAGCGCGTGGACCTCATCATCCTGC
TCTTTGATGCGCACAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGGGCACGCCCCAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCAGCCCCCTCC
TCGTGCCCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCCGCGACATCCAGGGCCTGCCCCGGC
ACGCAGCCTTGCGCAAGCTCAACGACCTGGTGAAGAGGGCCCCGGCTGGTGCGAGTTCACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAACAAGAAGAAGCAGCTGATCCTCAAAC TGCCCCGTC
TCTTTGCGAAGATTGAGCTGGAACATCACATCTCCCCTGGGGACTTTCCTGATTGCCAGAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGACGGGGGGCG
CTTTTGAGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCCCAACCTGCCCCGTGCGCTGGTGCCACCCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCTGCCCTCCCTGCCAGCTGTAAGGACCGGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT
CATTCAAATATTTATTGAGCACCTACTATGTGCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAAAACACACA
CTAATTCCTGGCAGGGCCCCAGCCCCCTCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

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FIGURE 5484A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTTCTTTTTTAAATTTTTTCTCACTGCGTGTGCCAGGCTG
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTCTTCCACCTTTCCCGGCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCAGTGTTGGACCTAGACTTCTTGAAGATGACA
TCCTGGGCTCTCCTGCGACAGGGGGCGGGCGGGGGCAGTGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCACCCCTGCAGCCTGCGGATGGCGGGGAGGCCCGACGGGCGCTGGAGGGGCAGCGGCCGTGGCTGCGGGG
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCGCCTACCGTGTGACCCACAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTGACGCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGCCCTCAAGGCCCTGCCAATGGCAGCCCTGGGGGTGCCACGGCGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCGAGCCCGTCATGGCGCTCAACACGCCACCTCCAGCTCCTGGCCAAGC
AGGTGCCCGTCAGCGGCTACCTGGCCTCGGGCGCTGGCCCCCTCGAGCCCGTGACGCTGGCGTGGCCGGTGTCT
CGCCACAGGGGGCTGGCCTGGTCATCCAGAAGAACCTCTCGGCCGCTGTGGCCACCAGCTCAATGGGAACCTCTG
TGTTCCGAGGCGCGGGGGCGCCTCGGCTCCACCGGGACGCCCTCGGGACAGCCGCTGGCGGTGCCCCAGGCC
TCGGCTCGTCGCCACTGGTCCCGGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCG
CGGGGGTGTGCGGCCCAAGCTCTACCAGCTGACGCCCAAGCCGTTTGCGCCCGCGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTCATGGCGGGGGAAGGCGG
GCCAGAACGTGGTGTGTGCGGCTTCCCCGCGCTGCGCTGCAAGCGAACGTTTCAAGCAGCCACCGGCCACCA
CCACCGGAGCGGGGGCGCGCAGCCCCCGGGGCCCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATCGTCATCCCCGCCCAGCACATGCTGCCGGGCCAGAACAGTTCTACTGCTGGCGCCCCGGCGGTCC
AGCTCCCGCAGCAGCTCTCAGCCCTGCCGGCCAAAGTGGGCGGGCAGATCCTGGCGGCCGCTGCCCCCCACACAG
GTGGACAGCTCATCGCAACCCATCCTCACAAACAGAACCTGGCGGGGCCACTGAGCCTGGGCCCCGTGTGG
CCCCCACTCCGGGGCCACAGCGCGCACATCCTCTCCGCCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC
AGATGCCCCGTGTGCTGGCGGGCGGGCAGCCTGCCACGCAGAGCCAGCCAGCGCCCGCGGGCGGGCGGCCACCA
CTGTCTCCAGGGGTCAACCCTGCCCCCAGCGCGCTGGCCATGCTCAACACCCCCGACGGCCTGGTGCAGCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCCGCGCCTGTCTTACGGTGCAGCCTGCCCCCAGGCGCCCCCGCGG
TCAGCACACCCCTGCCCCCTGGGCTCCAGCAGCCGAGGCGCAGCAGCCCCCGAGGCCCCACCCACAGGCCG
CCGCCCCGCTCAGGCCACACCCCCAGCCAGCCCTGGCCTGGCGTCTAGCCCGGAGAAGATCGTCTGGGGC
AGCCGCCCTCTGCCACCCCCACGGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTGCCCCAGGAGAGGCC
AGCAGCCCCCTCTCCGCAGAGGGCCCCACCTCTCCGTGCTGCTCGGTGCTAGTCAGCGCCCCGCTCCCGCCC
AAGACCCAGCCCCAGCCACCCCGCTCGCCAAAGGAGCTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCGCTGAAGGGCCCCAGGCCCTCTTCGTCCCGTCACTACCTC
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCCGGCCCCCTTCCGCCCCACCTCCC
GGCCACAGAGTGTGTCCCGCCCTCCCTCAGAGCCACCTTGACCCCTTGCCCCCACCACAGGCCCCCAACTC
TGCTTGGCACTTTGTTCATCCAAAACAGCTAGGCGTTCCCCGCTGCCAGCAACCCGGCCCCCTACTGCCCCAG
GCCCCGCGCAGCCGCTCTCCGCCCCAGTCCAGCGCCTGAGGGACCGCTGCCCCAGCCCCCACCCTCCCTC
CATCTCCACCTCCTCTGCTGTGGCCTCCTCCTGAGACGTCCTCCAGGTTGCCAGCCCTACGCCATCCGACT
TCCAGCTCCAGTTCACCCAGCCAGGGGCCCCACAAGTCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG
AGCCGGCAGCAGCCCCCCCCACCGCTCCTCGGACCTTCCAGATGGTGACCACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCGAGAGATTTACACAGGTGCCGTCCGGAATCATCCTCCAGAACAAGGCTGGGGGGGCCCTG
CCGCCCCGAGACCTCCACAGCCTGGGGCCCCCTACCAGCCCCGCTGCGTCTGTGCTGGTCACTGGGCAGGCC
CATCTGGGACCCCCACTGCCCCAGCCACGCCCCCGCCCCGGCACCATGGCCGCCACAGGCTCCTCCTCTGTC
TTCCAGCCGAGAACAAGGCTTTTGCCAGCAACCTCCCGACCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACCTGAGTGGCCTGAAGAAGCCCCCAGCCTTACGCCAGCAAGG
AAGCCTGTTTCTGGAGCATTGACAAACACAGGGCTCCGTCTGCAACCCGACTACAAGACGGCCTTCCCT
CCTTTGAGGACGCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCTCCCCAGTGACTACC

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FIGURE 5485

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTCTCTGGCC
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAACATGTTCAAAATGGCCA
AAAAGTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCAAGAGGCCATTAACTGTTTGATGC
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCGGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCCACGAGGAGCAGAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCAGTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTCCCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCAGCCCCGGGAGCCTCCCCAGCTTCCTGCAGCCCCGACCTCTCAGGTTAGACCCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC

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FIGURE 5486

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCAGAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCCAGAAGATCCCGGAGCTCAGTTCTTGATTGCTACTGGGT
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTCACTCAATTTCGATGCTGTGTGTCTGACTTGTCTCTCCA
GGGATGTCTAGTTAAAGTTGACCAGATCTGTCAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAATAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCGACACCAAGAGAGCAAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCCACTTCTGATA
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCCTGACC
TGCTTCTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCCCTCCTCACAACAACCTTCTTCTTCTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT
GCCCACCTGTATTCCCTGTCCCTTCCCTTCATGAAGGCATCTCCAGGCAAGGAAAATAAGTCAATTGGCCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGCTTTGTTCCAGCACTGTTTCAAGGCTGCCTGTCTATCCCGGGCCTGCCAGCTCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTACCTTCTTGGACTTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCCAGGCCCATGAGGCACCAGTGGAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGA
CCCTGACAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGGATGTTAGGGCGAGACCCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGGTTCTTGGGGCTTCAAGGCTAGGAGGGAGGAGCCTGCCCTTTTAACAGAACCCAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTCAAGGCTATGTTGGTCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTACATATGTTGTGAATTTCTTGGTTCTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTACAGACCT
GAGGCTCTA

5951/6881
FIGURE 5487

GTCATTGGCCCGATACAAAACATTTTCCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTCATCCCGGGCCTGCCAG
CTCCCCCTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGC
CCTCTGGGGCATTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTGTACCTTCTT
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCATGAGG
CACCAGTGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG
AGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAG
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTTCAAGGCAGGTTCTGGGGCTTCAGGGCTAGGAGGG
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

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FIGURE 5488

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTCGCCATGATCC
GCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTC
GGAACTTTAAAGATCATTTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTCACTTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAACTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGCCCCGG
CCCCCTCTGGACTCGCCTGCTCGCTTCCCCTTCCCAGGCCCGTGGCCAACCCAGCAGTCTTCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTGCCGTTGTCTGTGATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

5953/6881
FIGURE 5489

GGCACGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCGATCCCACCTCCCGGACCTAAGAGCCTGGGTCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGTCCCGCCTCCCGGATCCAGGCGTCCGGGATC
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCAGCCTGGGGAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTCAGTGTGTGAACCTACAACCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCTAGGAACGTCGGGTCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGTAAGA
AACCCCGGTGCTTCCCATCATCGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGGGAGCCACCGC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCA
GGTGCGCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTCGGGGGCCGGGGTGGCGCTGGCGTGGGCCCCGAGCGCTTGAGCGCCTTCTGCTTCCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGGCGCTGGTGGTGTGACAGCTTGATCGGCGGCGCCGCCAGCCT
GGACCCCGCGCGCTCGGCCGTCTGGGCGCCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTGGC
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCGCCTCCGCCGCCATCAACGCTCCGTGGGAGCCGC
GGGCAGTGCCGAAAATGCCCCCAGCAAGGAGGTGCTCGATTCTGCTTCTGGATCTTGCGAGAAATATCTTCCCTTC
CAACCTGGTGTGACGAGCCTTTTCGCTCATACTCTACCACCTATGAAGAGAGGAATATCACCGGAACAGGGTGAA
GGTGCCCGTGGGGCAGGAGGTGGAGGGATGAACATCCTGGGCTTGGTAGTGTGGCCATCGTCTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCCTGGATCATGTGGTACGCCCTGTGGGCATCATGTTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCTCATCTACTTCTCTTACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCCGTTTCATCCTGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGAGTGTTCATTGCACAGCTCAGCCAGCAGTCTTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGCAGCGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCTCGA
AGCAGTCAACCTCCCGTTCGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATACAAGTGAAGAGTGAGCTGCCCTGGATCCGCTGCCAGTCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGCCCCGAGGGGATGCCACGGTGCCTCTGAGAAGGAATCAGTCATGTAAACCCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGCCCCAGCACCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTACAAGGGTTACTCCTCAAAACCCCACTTCTCACTCATGTCCCAACTC
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTC
TCAGGGAGCAGGTACAGGTACCATGGGAATTCTAGCCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGCTGTAGTTGTGGGGGGATGTGTGTGTGCAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCACCTGTCCCCAGATCCCTATTCCCTCCACAATAACAGAAA
CACTCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATA
AAATTGAGTGTCAACTATTT

5954/6881
FIGURE 5490

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELLRLRLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNILGLVVFAIVFGVALRKLGPEGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAIHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQSLDFVKIITILVTATASSVGAAGIPAGGVTLAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPLDPLPVPTEEGNPLLKHRY
GPAGDATVASEKESVM

5956/6881
FIGURE 5492

ATGATGGAGGAGCGAGCGGCCGCCGCGGTGCGCGCCGCCCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCGGGCCGGGCCGGCAGGTAAGGAGGCGGCGGC
GGAGGCGAGCCCCGGGCCACGGCGGGCCCGGAGCCCCCTGAGCCTGCCGGGATCCTGCACTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCGTGGGAGGCCGAGCGCGCGAGTTACAGGCTCAGGTGGCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTG
TCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGTACACAGACACCATCCTCGACATGCGGTCCAAGCGCTCCGT
TCCCTGCTGGGCCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGCCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGAGTCTGCTGCTGGTGAACAGATCGAGGAGCAGATAAAGAGGAACGCGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTCTGGGGCAGATCCCCCTTCTGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCCAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCTTGGGCTCAGGA
GAGGATGGGAAGGGGCTCCAGACCCTCGGCGGTGCACTGTGGATGGGAGCCCCATGAGCTGGAAGCCGCTCGG
GTCAAACCTCAAGGCGTTCTGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGACTGGCCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCCTACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAG
AAGACGTGGAACCCCAAGTTCACCTGCGCTCGCACTACGACGGCATTTCGTTCCCTGGCCTTCCACCACAGCCAG
TCGGCTCTGCTCACCGCCCTCCGAGGACGGCACGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACGGCCAAGAAG
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGCCAGTGTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGGCAGATGCCTGCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GATCCCTATGATGGCTACGACCCAAGCGTGTGAGCCACGTCCTGGAGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACCTCCCAGCGCCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCACTGAGGACCCACGAGC
AGCAGCCCCGCTGCTCTGCACCTTCCCCACAGCCAGCGAGCACGGGGTCCCCACCTCAGTGGCCTTACCAGC
ACCGAGCCTGCCCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGTATGACATGGAGGTTGGCAGTGCC
CTCCTCACGCTGGAGTCCCGGGGCAGCAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCCAAACCAGCCT
CTCACCATCACCGCCCACGACGACAGGGGCATCCGCTTCTGGACAATCGGACAGGTAAGCCGGTGCCTCCATG
GTTGCACACCTGGACGCGAGTCACTGCCTAGCCGTGGACCCCAACGGCGCATTCCTGATGTGAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAACGTGCGTGCAGGAGATCACGGCCACCGCAAGAAGCACGAG
GAGGCCATCCACGCTGTTGCCGTGCCACCCAGCAAGGCCCTCATTGCCAGTGTGGCGCTGATGCCCTGGCCAAG
GTCTTCGTATGATGCCCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAGGGCCGGGCAGGTGGGGCT
GAGGGGACTCCCAGCCTCGCTGGAGGTGCAGAGGCTGGCCTCTGTCTGTTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTTCCCCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCTTTTCCAG
GAATACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTCC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCCATCCCCATCCTCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCCCTCCCTCCGGCCCTCTCCACTGCTTTCCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCAGCGCCCCATGGGGTCGCCCATGGGT
AGAGACGGCTTTCTGTGCCCTCCCTGGGGCATGGAGGTGGAGTGGGCCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCCGCCACCCGCAATTACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGTGTTGTTTACCCTGCACCCTCGGTCCCCTT
CCAGGTTCTGTTTATAAGCCCCAACCCCTCTGTCCCACATCTGTATGTGAAAACCTGTCTCAATAAACCCCTTG
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5957/6881
FIGURE 5493

MMEERAAA AVAAA SSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGSPGPTAGPEPLSLPGILHFIQHE
WARFEAEKARWEAERAELQAQVAFLOGERKGQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV
SEQVSNPVESVTL ENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG
PAGLSGGESLLVKQIEEQIKRNAAGKDGERLGGSVLGQIPFLQNCED EDSDEDELD SVQHKKQ RVKLP SKALV
PEMEDEDEEDDSED AINEFD FLGSGEDGEGAPDPRRCTVDGSPHELESRRVKLQGV LADLRD V DGLPPKVTGPPP
GTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNPKFTLRSHYDGIRSLAFHHSQ
SALLTASEDGT LKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDLSM
DPYDGYDPSVLSHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLCTFPTASEHGVPTSVAFTS
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDRGI RFLDNRTGKPVHSM
VAHLDAVTCLAVDPNGAFILMSGSHDCSLRLWSLDNKTVCQEITAHRRKKHEEAIHAVACHPSKALIASAGADALAK
VFV

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FIGURE 5494

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTCACTATTTGACAAAGATGGTGATGGAAC TA
TAACAACAAAGGAATTGGGAAGTGAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAAATGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT
GTACAGAATGTGTTAAATTTCTTGTACAAATGTTTATTTGCCTTTTCTTTGTTTGTAACTTATCTGTAAAAGG
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT
TACTGTCATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTTGAGTTGTAACCTCTGCGTGGACTATGGACAG
TCAACAATATGTAAGTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCGTGACCAGAAACATTTTCTTTTATGTTACTTGCTTTTAACTTTGTTTAGCCACTTAAAT
CTGCTTATGGCACAAATTTGCCTCAAAATCCATTCCAAGTTGTATATTGTTTTCCAATAAAAAAATTACAATTA
CCC

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FIGURE 5495

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR
KMKD TDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 5496

GAGCCTACCAAACCTTTGGTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCCTGGAAAAAACCCTAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCGGGCAGAA
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGGCCGTG
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTCTTGTCAGTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCCTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTTCTCTACCAGGCTGCCGTTTACCAGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTCAATCCCTTTATGCATGAGCAGGGTCACTGTTACACT
CATCCATGTTAGCTTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCCGCCTTCTCTCGTGTAAACAGCGGGGTAAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGAATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGCACTTTGATTCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAGGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCCAGCTCTAATTCATCCATCTACCCAAGTGTACCATCTTTGCACCAAAC
TGTCACCATCTTTGCAGCAGAAGGTCACTACTACATTATAGTAAGAGGGGAAAAAATCTTTTAAACTTTGGCT
GTTGGCCGGGCACGGTGGCTCAGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGTCGATCAGAGGTCAG
GCGTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAATTAGCTGGGCGTGGTGGCGCGCGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAACAAAACCTTGGCTGTTAATG
TCTGCCCTCTGAATTGAGACACACTATATTAGACCAGACCACCATGTGTCTATTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGAGCAGGGTCCCTGAGATAATGGTTTCCAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTCTCACGTGTTTAAAAAACTGAAAAGTGACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTATAGGTTAACTTGTTTTGTACACGTCTTAGTTATTTAGGCAT
CTCTTTGCTTAAATGAGTTTCTTGTAATGTGACTGATGAGCGAGGTTAGAAGTGGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCTGAAAGCAAGTTTCCCTTTCGTCATTACATGCTCTTGTTCTGCCGTGACTGTTTCAG
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAACAAATTTCTCGTGATGATTCATTTCAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGAGTTCTCCTGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACCAAGCCTGTAAGTGTCCAGCTTCTAATTTCAAACGGGTCCATTAGG
GCTTCGTTGTGTTAACAAGTTGACACCATGACTAGTAAATGTAACGTGTATGTATAAAATAAAGTTTAGCAAT
TAAGTGTCTGTT

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FIGURE 5497

CGCGACGGTTGCGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCATGGCGATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCGCGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCCTTTGAGCGGGCCATCGCGGGCGAC
GAGCACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAGTGACAATCAGTTTTCATGAAGGAGCTCATGCAGTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCTTACCAGATTCTGGTACAGGTCAAAGAGGTCCTCTCCAAGCTGAGCAGCTCGTGGAAACCACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTGAG
CTCAACGGTTTACCCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCAGGCTCCTTCTCTGTA
GAAGTGATCCTCACCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACCAAGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTGAGTGGCTCCCGTTGGCCAGTGCAATCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTACCCCTGGATGACATCCGAAAATTGAGCGGAATCGACAACCCCCAGATTACAGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTGAG
TTTGGGCTGACGTACCAAGGCCTTCTTGGAAAGAGAACAACCTGGACTATATCATCCGACGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCCGCTGTGTACCGTCTTCTCTGCCCCCACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCCACCAGTTACAGCAGTGCCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACCGCTGCTGCAGCTAGGAATGATGTGAGGTGACGGGCGGGGC
GGCCTGCATCCAGGGCCCCCTCCAATCCCACCGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCCCTTTTACTTTGTAAAGTTGTATTTATTCCCCTTTAGGTTTGCAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCTTGGGCATTCTGTGGGGAGGCCGCTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCGCATAGGAAGACCCCCAGAGAGAGGGTTCAGCAGGGGGGCCCC
GCTGCGCTCCCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC
TGTAATTAATATGTTAAATAAAGTCATTATCGGAAAAAAAAAAAAAAAAA

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FIGURE 5498

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT
ECYGYALGDATRAIELDKKYIKGYRRAASNMALGKFRAALRDYETVVVKVPHDKDAKMKYQECNKIVKQKAER
AIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTLFGFKLLYPDHFHLL
RGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTLDDIRKIERNRQP
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPN
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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FIGURE 5499

CCCCTTCTGTGGGGTTTCATTGGGGCATCCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCG
GCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCCCAGGAAGCCGGACTCTATGGGGCGGGACCCTGGGGG
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCCG
TGGGCGAGCCGCCCGCCCCGCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCCTCAGCCGCGTCCAGATCTACCACA
ACCCACAGGCCAATTCCTTTGCGCTCGTGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC
TCAACTTCGGCAGCAAGGAGGATGCGGCCCAGTTTGCCGCCGGCATGGCCAGTGCCCTAGAGGCGTTGGAAGGAG
GTGGGCCCCCTCCACCCCCAGCACTTCCCACCTGGTCCGTCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC
AGAAAAGGCAGCAGCCCGGCCCGTCCGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCACCTGCTCCCC
CCGTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT
CGGGGGTCCCAGCTGCAGCGCACGGAGCAGGGGGAGGACCACCCCTGCACCCCTCTCCCGCAGCACAGGGCC
CTGGTGGTGGGGGAGCTGGGGCCCCAGGCCCTGGCCGCAGCTATTGCTGGAGCCAACTCAGGAAAGTCAGCAAGC
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCAAAGCTGAGAGTGGTCGAAGCGGAGGTGGGGGACTCATGGAAG
AGATGAACGCCATGCTGGCCCCGAGAAGGAAAGCCACGCAAGTTGGGGAGAAAACCCCAAGGATGAATCTGCCA
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA
CCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCACTCCGAGACCCAACCCTGCACGCCCAGCTCCAGTGATT
ACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAA
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTGACCACAGGGACCCAGAAGACCCGCTTCTC
CTTTCCGCACACCCGGCCTGTACCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT
GCATCGTTCCCACTCCCCATCCCACTTGAAAACTCCAAGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCT
GCTGATTGGCTGGGGAGGCCCCGCCCTTTCTCCCTTTGGTCCTTCCCCTCTGCCATCCCTTGGGGCCGGTCC
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGAAGGAAGGAGGGAATTTACATTCCCTTGTTCTAG
ATTCACTTTAACGCTTAATGCCTTCAAAGTTTGGTTTTTTTAAGAAAAAAAATATATATATATTTGGGTTTTG
GGGAAAAGGGAAATTTTTTTTTCTCTTTGGTTTTTGATAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACCGGGCTGGGGGTGAGATATCCCCCAC
CCCAGGACTCCCTTCCCTCTGGCTCCTTCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT
CAGTTTTTTGATTTTTTATTTGGGTAGGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATG
AGGGAGAAAGGAGAAGGGGAGGAACTTCTCCCTCCACCTTACCTTTAGCTTCTTGAAAAATGGGCCCCCTGCA
GAATAAATCTGCCAGTTTTTATAAAAAAAA

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FIGURE 5500

MSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDQQVVINCAIVRGVKYNQA
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALPTWSVPNGPSPEEVEQQKRQQPGPSE
HIERRVSNAGGPPAPPAGGPPPPPGPPPPGPPPPGPPPPGLPPSGVPAAHGAGGGPPAPPLPAAQGGGGGAGAPG
LAAAIAGAKLRKVSQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP
AQSESVRRPWKNSTTLPRMKSSSSVTTSETQPCTPSSSDYSDLQRVKQELLEEVKKELQKVKEEIEAFVQELR
KRGSP

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FIGURE 5501

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCTTTC
TGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCGGCGCCCGGAGACCGCCCCGGCCCGGTCCACATTCT
CCCTGACCACAGGGACCCAGAAGACCGCTTCTCCTTTCCGCACACCGGCCTGTCACCCTGCTTCCCTGCCTC
TACTTGACTTGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATCCCACTTGAAAACTCCA
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCCGCCCTTTCTCCCTT
TGGTCCTTCCCTCTGCCATCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGG
GGAAGGAAGGAGGGAATTTACATTCCCTTGTCTAGATTCACTTTAACGCTTAATGCCTTCAAAGTTTGGTTT
TTTTAAGAAAAAAAATATATATATATTTGGGTTTGGGGGAAAAGGGAATTTTTTTTCTCTTTGGTTTTGAT
AAAATGGGATGTGGGAGTTT

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FIGURE 5502

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCGCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCCTGTGGACACCTCGGC
CCAGGCGGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCCCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCCTGCGGGTCCTGCTTGTCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGTGACTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCCTGGG
CCCTCAGAAAGCCCCGAGGCTGTTTGATGTCTGCACGAGCCCTTCTTGAAAGTACCCTGATGACCCAGCTGCC
AAGGAAACCCCAAGTGAATAATAAATCGTCCTCCCAGGCCAGGCTC

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FIGURE 5503

MDPGKDKEGVFPQPSGPPARKKFVIPLEDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAI SQPLEGAGAT
CPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLETYKAYEQKPADLLME
KLEQDFVSRVTECLTTVKS VNKTDSQTLLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

[illegible]

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FIGURE 5505

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQPIPASPPPQIPPGLRPRFC
AFGGNPPVTGPRSALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKKNQQLKEPE
AAGPVGTEPTVETLEPLGVLFPSSTTKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGME
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ
AQAALAAPKKKTKKEKQQDATVEPETEVVGPPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEGQ
PEARATPGSTKKRKKQSQESRMPETVPQEEMPGPPLNSESSEEAAPTGRDKKRKQQQQQPV

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FIGURE 5506A

CGCCTCCCTCCGCCGCGCTTGGGCGGGCTCCGCGCCCCCTCCGCGGCCCCCGCCCGCCCGCCTGCCGCGCGCCC
CCATGGCGCCCCGGGGTCCCCGCTGCACGGGGCCACTAGGACCCTCGGCGTCCCTTCCCCCTCCCCCGCCCTGCCCC
CTCTCCCGCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGAGCTCGCGTCCCAGGCCGGCGGGGGGGGA
GGGGAAGAGAGGGGACCCTGGGACCCCCGCCCCCCCCACCCGCGCGCCCTGCCCGCCGGACCCGGAGAAGATG

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACCTCGGACACGCATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCGTCCCTGGTCCAGCCGCTCACTGGGTGCCCGTGGCCGGAACCTCCATCGCCTCCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCTGCTGAGGACCATTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCCTAAACCACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGCTGGAGAAGTGTGTTGACTACCTCGTGTGCGATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCCGACAGATTGTTTCGGCTGTGCACTATTGTACCCAGAAAAAT
ATTGTACACAGGACCTGAAGGTGAGAACCTCTTCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTCACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCCGGAGCTG
TTTCAGGGCAAGAAGTACGACGGGCCGGAGGTGGACATCTGGAGCCTGGGAGTCATCTGTACACCCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCTGCGGAGATTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC
GAGCAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCCAGCAAA
GGCACCAGCCACAGCAAAGGGCAGCGGAGTTCTCTTCCACCTACCACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCCCTGCACCCCTGCACCCCAACGCAGCCCGACGAGCACGGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGCGAGCTGCAGCACCGCGGGGAGTGGGAGTTCGAGGGCTGCCCGCTCCAGCCCCATGGTC
AGCAGCGCCCAACCCCAACAAGGCAGAGATCCAGAGCGGCGGAAGGACAGCACGAGCACCCCAACAACCTC
CCTCTAGCATGATGACCCGAGAAACACCTACGTTTGACAGAACGCCCCGGGGGCTGAGCGCCCGTCACTGTTG
CCAAATGGGAAAGAAAACAGCTCAGGCACCCACGGGTGCCCCCTGCCTCCCCCTCCAGTCACAGCCTGGCACCC
CCATCAGGGGAGCGGAGCCGCTGGCACGCGGTTCCACCATCCGACGACCTTCCATGGTGGCCAGGTCCGGGAC
CGCGGGGAGGGGGTGGGGGTGGTGGGGGTGTGAGAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCGCCGGGCGGCCCGCCCCACCACCAACCTCTTACCAAGCTGACCTCCAAACTGACCCGAAGG
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG
ATCAGGTTCGAGACGAACCTGAGAGAATCGGGGGACCTGAGGTACAAAGTTGCCATCTACCTTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCCTGGAGTGTGAAGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCCGCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGTGGCCTGCCTGC
ACGGGGGTGCGGGCGGGCCCCGAGCCCTGTCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAGGCTTGC
GGGGAGTTCTCTTCCGCGGTGTGGCGGGCACCGCCTGGCCTTCCGCACCCTCGTCACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCACGGTCCAGGGCCCTTACTCTTCTCTCCCTGTGCGCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACCTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCGGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAAACTGAGGAAATCTTCCATTCTCCCAACAGCTCAAAATTAGGCCTTGGGCAGGGGCAGGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCCTCCC
GTCCCCTCAGCTCAAACCCCACTTCTGCCCCAGGCTGGCGCGGGGCACTTTGTACAAATCCTTGTAATAACC
CCACACCCTCCCCTCTGCAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCG
ACCTCTCTCTGTGAGCCCCCTCACCTGCAGCCTGTTGCCAATAAATTTAAGAGAGTCCCCCCTCCCAATGC
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGGAGCCTCGGTTTTCTCATCTGCAGAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTGG
AAGAAGGCAGGATGGAACTCGGCCTCATCCCCGAGGCCCAAGTTCTATATCGGGCCCCCATTCATCCACTCAC
ACTCCAGCCACCATGTTACTGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAAACAATC

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FIGURE 5506B

ATTGAXCCC

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FIGURE 5507

MSSRTVLAPGNDNRNSDTHGTLGSGRSSDKGPSWSSRSLGACRNSIASCPPEEQPHVGNRYLLRTIGKNSAKVKL
ARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFEEVIEKTEKTLVMEYASAGEVFDYLVSH
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLDAAENIKIADFGFSNEFTLGSKLDTFCGSPPYAAPE
LFQGKKYDGPEVDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSTDCEILRRFLVLNPAKRCT
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLLGRKTEEGG
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQRRHSDFCGSPAPLHPKRSPTSTGEAELKEE
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNAEIPERRKDSTSTPNNLPPSMMTRNTYVCTERPGAERP
SL
LPNGKENSSTGTPRVPPASPSHSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGPPASPTLAHE
AAPLPAGRPRPTTNLFTKLTSLTRRVTLDPSCRQNSNRCVSGASLPQGSKIRSQTNLRESGDLRSQVAIYLG
IK
RKPPPGCSDSPGV

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FIGURE 5508

ACCCGGAGCGGGAAG**ATG**GCGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCACCG
GCCAGCCGGCACCCAATGCCTGGCAGGTTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCCGCGGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTGGCACTCTTCTGGGAACAGCAGCATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCGGCGAGAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTCCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTTCACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTCCAGTCATTTCGTGGTCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCTATCGACCTCTGGAAGATCACCAAGGTTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTGCGCTTTGTATCAAGATGCCCGTTATGTACCGGATCGGC
TGCCTGCGGGACGATGTGGTTTTTCTCATCTACCTCTACCAACGGTGGATCTACCGCTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCACACAGCAGCAGGGGCC
CTCAGCCCCACCTGCACCCACCACGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCACCAAGCCC
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGAT**TAG**

TCGAGACTGGTCTCCTCACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCTCCCTCCC
TGTCGCCCCCTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCTCAGGTGAGGGCCAGCGTGTGACGT
AGGGGCCGGGGCAGGCCAGGGTTTTGTTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCCAGCACCCTGGGAATCATGTTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTGGGGCGGG
GGTGGGGCCGGCCCCCTACGGGATGCCACGCGGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTAAATAAATTTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAA

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FIGURE 5509

MAAAQEADGARS AVVAAGGGSSGQVTSNGSIGRDPPAETQPQNPPAQ PAPNAWQVIKGVLFRI FIIWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTILMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDP RQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWWKGSVPPPLDQYVKF DAVSGDYYP I IYFNDYWNLQKDYYPINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALT I IVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVS VFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFP LLGCYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFITMTP
QLFINYKLKSV AHL PWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVF IYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVPTAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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FIGURE 5510

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA
GCGGCCAGCGCTGGGAACTGGCACTGGGTGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCCTGGTGGAGACATGCAGC
GCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCTGTGCCCAGCGACAATC
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCCAAGCCACCCCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGG
AGACCCTGTCCCGCCCCAGCCGTCTCTGGGGTGGACCCTAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5511

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTCACATTCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTTCGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCAGGTCAACCAGGAAGTGAAGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGGAACAAGTGAACCCCGGTGGCGGAG
GAGACGCGGGCAGCGGTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCTTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCGCAGGGCGCCGAGCGCGGCTCAGCGCCATCCGCGAGCGCCTGGGGCCCTGGTGGAAACAG
GGCCGCGTGCGGGCCGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGACCCGCGACCGCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTCGAGCCCTGGTGGAAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCAGCGACAATCACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCC
TAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5512

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 5513

GGCGGCGGCAGCGGGTTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCAGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCGGGCACATTTCAGGAGTGCCACCGGAAGTGAAGGAGCTGTTCCCATTCAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAATACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAAGTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCTGGGGAACCCAGACGTCCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCCTGCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCTCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTCGGGGGGGGACATTGGAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAAGTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCCTCCAAAGGGCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCATCCCCGGTCAGTCCACCTGCC
CCGTCCACTTTCCTATCTCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTACAGAAAAA
AAACAAAAACAACAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5514

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGS LGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFP IQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQ LGPGLRSKMAIQ TQ QSKFVNWQVDGEYRGSDFTAAVTLGNPDV LVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEETVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAF LNHRKNKFQCGFGLTIG

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FIGURE 5515

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCCCACAGGCACCTACTAA
ACCGCCCAGCCGATCGGCCCCACAGAGTGGCCCGCGGGCCTCCGGCCGGGGCCAGTCCCCTCCCGGGCCCTCCA
TGGCCCGGGCCGCTGCCCTCCTGCCGTCGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCGTGG
AGCTGCCGTGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCAGATGCAC
CTGCGAACCACCAGAATGTGGCCGCCTTCCACCCTAAGATGGGTCCCAGCTTCCCAGCCCCGAAGCCTGGCAGCG
AGCGGCTGTCTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCACTACACTTGGCAGTTTGCCACCTTCCCCAAGGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCAAGAACCAAGCTGAGGCCCCAGAAGGTCACGTTACGCCAGG
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCCACTGCCCGGATCTCCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTCAGGGACCTGGCCGGAAGTGTCACTGTCAACAGCCGCTTACCTTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCGACCTCCGCAGTGGCCCAGGGCTCCCAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTCACTTTGTCCGAGAAACCCCA
GGGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGCTGCTGCTTCTGG
CTGGGGGGTCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGT**GTG**ACCTGGACACAGACAGAGACAGAGCCAGGCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACTGCCTCCCACTTTCTTGG
GACTTGGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCCGCCCCCAGAGACTTGTTTTGGCTCCAGCCTTCCCCTGGCCCCGTGACAC
TCAGGAGTTAATAAATGCCTTGGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5516

MARAAALLPSRSPPTPLLWPLLLLLLLETGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA
PANHQNVAAFHPKMGPSFPSPKPGSERLSFVSAKQSTGQDTEAELQDATALHGLTVEDEGNYTCEFATFPKGSV
RGMTWLRVIAKPKNQAEAKVTFSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGIVTVTSRFTL
VPSGRADGVITVCKVEHESFEFPALIPVTLVRYPEVVISGYDDNWYLGRTDATALSCDVRSNPEPTGYDWSTTS
GTFPTSAVAQGSQLVIIHAVDSLNTTFVCTVTNAVGMGRAEQVIFVRETPRASPRDVGPLVWGAVGGTLLVLLLL
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNGDPVFWTPVVPGPMEPDGKDEEEEEEEKAKEG
LMLPPPPALEDDMESQLDGSLSRRVYV

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FIGURE 5517

AGTCTCCGCCGCCGCGTGAACATGGAGCCCCGGACGCACCGGCCAGGCGCGGGGGCCCCGCGGCTGCTGTT
GCTCGCAGTCTGCTGGCGGCGCACCCAGATGCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCTTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCTT
TACCGACCGCTCGGGAGCTCGCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCA
CGACACCCGGGGCCGAGTCCCCCATAACAGCTGGACTCCCAGGGGCGCCTGGTGTGGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCCAAGATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCACTACAGCCT
GCCCCAGGGCGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCACTATCCCACGGAGCACGTGCA
GTTCTGGGTGGGAGCCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAAGTACCTGAGGGAGTGACCCGGGCGCAGAGCGGGACCTATGGCTGCAGAGTGGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCTTACCTCTAAACAGCAGTGCAGTTCGTGAAGTCTCCGTGCACGGCCTGCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATCACCTTCGATT
CAATGGCACCTACGTATGTGAGGCCCTCCCTGCCCCACAGTCCCGTCCCTCAGCCGCACCCAGAACTTCAGCTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCCGCGCCATCCAGACCCCAACTCAGCTGGAGCCAATTGGGGGGCAGCCCCGC
AGAGCCAATCCCCGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA
TGGCATCTCCTGTGAAGCCTCCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCA
GACCTCCCAGGCTGGAGTGGCCGTATGGCCGTGGCCGTGAGCGTGGGCTCCTGCTCCTCGTCTGCTGTCTT
CTACTGCGTGAGACGCAAGGGGGGCCCTGCTGCCGCCAGCGGCGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTGCGAGCAACCAGAGCAGACCGGCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGCTTCGGAGACGAGTGTGAGCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCGCCCGCCCTTCCCTCTTCCCTCTCCCTCTCCCTGCCC
AGCCCTCCCTTCCCTCTGCGGGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCAGCCTGGGACAAGGCTCCGAGGGTCGGCTGGCCGGAGCTATTTTACCTCCCGCCTCCCTGC
TGGTCCCCCACCCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCTGGTCCCACT
CCTGCCCCCGCCCTACCTCCGCCCCACCCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTACA
TC

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FIGURE 5518

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSVPLVEVMRGKSVILDCTPTGTHDHYLEWFLTD RSGAR
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLR
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLLHYPTHEVQFWVGSPSTPAGWVREGDTVQLLCRGDGSPE
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTELRVAYLDPLELSEKVL SLP
LNSSAVVNCSVHGLPTPALRWT KDSTPLGDGPMLSLSSITFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGSPEL
KTAEIEPKADGSWREGDEVT LIC SARGHPDKLSWSQLGGSPAEP IPGRQGWSSSLTLKVT SALS RDGISCEAS
NPHGNKRHFVHFGAVSPQTSQAGVAVMAVAVSVGLLLL VAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS
EQPEQTGLLMGGASGGARGGSGGFGDEC

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FIGURE 5519

TCCCAGCCGCACCGGTCCTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT
GGGAAGAGGCCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC
TGTCCTGTAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTCTC
GGCGGGGCGGCCGGCGAGGCGGCCCGGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC
GGCGGGGCTCCAGACTCAGGCACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG
AAAGTTGCGGAGCCCGGTGTGTGCTGCCCTGGGCTGAGTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAGTTCCG
ACGTCTTACCAGGCTCTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG
GCTACATGGCCTTCCCTACCTATGATGAGGTCCAAGAGCGTCTGCAGGCTGCAGAGACAAGCCAGGCAGTTACA
TCTTCCGGCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCCTGCAGA
CCATCCCTGCCAACAACCCCTGTCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCAGCAGCGCATCCACGTGTGAGAGGAGC
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTCTACGGTCAGGCTACTGCTGAGG
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCCCTTTCGGCTCCTCCATTGC
CCCCACGGCCAGATCTGCCCCCAGGAAGCCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAACCTCC
CTCCAGCTGCGCTGGGACCCCAGGACCCTGCCCCGGCCTTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG
CCCCAAGGGCTGGAAGGGGGTGTGAAACCGAAATAAAGTGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 5520

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG
SGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAGSRLRRQLAKLAIIFSHMAELHALFPGGKYCGHMYQ
LTKAPAHTFWRESCGARCVPWAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFEFDVFTRLFQWPPTLL
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLE
GQKDGFYLYPDGKTHNPDLTTELGQAEPQQRIVSEEQLQLYWAMDSTFELCKICAESNKDVKIEPCGHLSCCL
AAWQHSDSQTCPFRCRCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA
QPKVRLKGNSPPAALGFPDPAPA

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FIGURE 5521

ACCATTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA
GGTGGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTCACGTTGGCGCCGTGCTGCAGCAGCAG
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGATGAGCGGGGAGCGGCCG

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FIGURE 5522

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCCGTGGACTGCGCACCCGGGCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCCGCTGCGCCGCCCTTCCCCGGAGCCCGCCGCTCCCCGCGGGCGCTG
CGGGCCTTGTCGTCCCCCTGGACCCTCTGCGCGGGCGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCCACGGCC
TGGCCCCGCGGAGGCGCTTTACTACCCCGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGGCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGACGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGGAAAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAACGCGCAAATGTACTCCGCGAGCTCCGCCCTGCACTCAGCGTCCGGCCGCGGCTCCTCCCGCTGGTGGC
CACGCTGGTCCGACGCGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGCAG
CCGACGGGTCTCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCAGCCAGACCCCTCCCTGA
CCGGAGCGCCAACACCTCCCCCGAGAGCAGCAGCGCCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCAGTCTCCCCCAGGGACCCCTGGATTCCCCATGGCTCCTCCCAATTTCTTCTCCTTCCCC
ATCTCCACCCGCTTCTGCCCCTTGCTGGGGTCTCCGAGGCCCTGGCCGGCCGCTGCCCCCTCCCGAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGAGATCTTGGACTCATGAGGAGGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAACTGTGAAGATCTCACTCTGCCCCCCCCATCTTCGGGACCAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCCATCTCGCTCCCTCCAGGACTCTGACCCACGAT
TCTCAGGCACCACTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCTCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTCTTTTGTAAATAAACTATTTTGTACCAT

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FIGURE 5523

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATCTGCCCCCTACTGTGGAAATTCCTTGCCCTGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTATCCTTCCAAGGCTCAAAGAGAGGGGCTGAAGTCCAGTTTTTGAAACCTCTCCTAA
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGACCCAC
CTCCACCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGAC
CCCCTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTTGTTGTTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTCAGCCCAAAGCATGTGCTGTCAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCCTCCATGAGAATGAGTATGTTTATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTTATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCCGCCGAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCCTTCCCAACACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCAGTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCCATTTGGCCTCCCGATGGTGCCCTAGGTGGAATCCAGAACTTTCCATTTGCAGTGTGC
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAAATCACAGATAAGCTTCTAGAACAAGCCCTG
GAATGTGCATTCCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC
CCGTGAATGTGAAGTTCCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCCTAGCAAAGCTGGATGGGGTTGGGC
CGGCCACAGGGGGGACCCCTCCTACCCCTTGACTCCTCTGTGCTTTGGTAATAAATTGTTTACCAGAG

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FIGURE 5524

MISFCPCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVSSFQGSKRGLNSSFETSPKKVKWSSTVTSPRLS
LFSDGDSSESEDTLSSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTS CSPQKTRQSPQTLKR SRVTTSL
ALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTLTCDSGPQKQKFS LKLDKDGRLFNEQNFFQRAAKPL
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLSERSVLQVACRLDDALEFLHEN
EYVHGNTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS
LGYCMLKWLYGFLPWTNCLPNTEDIMKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLR
NNLEALLQDLRVSPYDPIGLPMVP

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FIGURE 5525

ATTCATTCCCTGTCCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCGCCTCTGCCTGCGTAGCCCCGGCCAT
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCGCTCTCCGCGCTCACCACGCTGCGCTCTCCGCTCCCACC
TTCTTTCTTCAGCCGAGGCCGCCGCCCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTCGCTTGGTGCCT
GTCTTCGCCCACCTGAGCATCCTCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCC
CAGCACCTGTGCTACAGCCATGCTCACTCCTGGCGACCCTGGGGCTGGAGCTGGACAGGGCCCTGCTCCCAGCTAG
TGGGTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTGG
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGAGAGCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA
GCGAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCTACCCCCCGGCACCCTCCCCAACCTTCCCCAAC
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCTAGATGC
CCCGCCCTCCCACCACCTCCCCGCCGCACTACCACCACCACCTACCACCAGCCCCCTCCCTCCCCCTGTC
CCTCCCTCCTTTGACCTCCCCAGCCCTGTCTTGGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGA
GGCCGGGCAGGAGGAAGTGGGGATGCCGCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACC
TTCTCGCCTGGCCCCCTACCCACATCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA
GTCGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGA
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGGAGATCCAGTACGTCAAGGACCTGCTCAT
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTAGAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG
CTTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGAGGCCAGGAGGTCAATACCAGCCTGGGCA
ACATAGTAAGACCCTGTCTCTATTAAAAAATAAATCAACCCTTCTTCCCCACCAACCACCAACTCCTCTCT
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTCTTGATCTCCTTCCCTCCTTTCTC
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCCGTACATAACAGCCGAGGCACCGAGGCCACA
GGGAAGCAGCTGGGAGCTTGGAAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG
GACCCATATCCTACAGGCAAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG
CCAGGTTTGCAGTGCAGGAAGATGAGCAGGCCAGTGGGAGGAGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT
GTTCATTTTAGCTCTAAGAAAAAATCAGTGTTCGTGAAGGTGTTGGAGAGGGGCTGTCTGGGTGAGGGAT
GGCGGGGTACTGATTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTG

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FIGURE 5526

MSLLATLGLELDRALLPASGLGWLVDYGKLPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA
LLPLEPPLPPGTLPQPSPTPPDLEAMASLLKKELEQMEDFFLDAPPLPPPSPPLPPPPLPPAPSLPLSLPSFDL
PQPPVLDTLDLLAIYCRNEAGQEEVGMPLPPPQQPPPPSPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY
RQRKRAEGEAGEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQTRSC

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FIGURE 5527

GCGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGCGGCCCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCCTCCCAGTCCTGACAAATGGCCTTTCCTTAAGTTCCTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCCTAACAAGGACAAAGCCACCATCATTACCT
TGATTCCGCACATGCCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCCTGCACCTCCTCGTCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTCAACATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCAACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAAA
AGGGCCACTCGCCCCAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT
GCCGGCCACCAAGGTGTTCTTAAGCTTCCGAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAA
CACCGATCGCCCGTCCGCGCATGATTTCTACCCGCCGCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCGAGCGTTCCGCCGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCCTGTCTGTGCGCCAGCTCTGGGACGGCACCGGCGTCTCAAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCCGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCCCTCGATGACCTGGCAAAGGAAGAAGGCAGCCACCCCTCC
AGTCCAAGGCCAGTTATCTCTCCAAACACGACCCACACGAGGACCTCGCATTAAGTATTTTCGGAAA

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FIGURE 5528

GAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCGGCTCGGCTGAAGAAAGAAGAA
ATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC
ATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGGCAACA
ACCACACCTGCTACAGGGTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCA
GCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCACT
TTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC
AACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATA
TCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGGCTTGTGTTTGGCCCCTCCACCACCTCTGTGGCT
CCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGAAGCACGGCCCAACCTCCGGTTTCAACATTGGCTCA
GCAGGGAATTAGCCCAGCCCAGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTGCGTCAATA
GCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT
GCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAATCCACCGCTGCC
ACCGCCACCGCCACCACCAGCAGCAGCAGCAGCACCACCGGCTTGCCTTGAATTTAAACCCTGGCGCCAGCC
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCTTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTG
CACCGCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCCAGCAG
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCAGGAT
CTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACACCAGTGACCCACTGCAGCAGATCTGC
AAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAG
GAGGTGACCAAGGTGTGCGAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTTATGAGGGGAATGCGCCCTGTTGTCGTAGTTTGGGGTTGTG
GCAAGATACTTGTGTTGTTGTTTCTTTCTTTTCA

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FIGURE 5529

CTGTAGTCCTGGCACTTTGAGAGGACAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA
AAATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG
CCATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTCACGTTTGCGACTGCAAAGACGGCAA
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAAC
CAGCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA
CTTTTGAACAGCGACTCTTGCTTCGGGGGGAACCTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA
GCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA
TATCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG
CTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCT
CAGCAGGGAATTCAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAA
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCCA
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTG
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCACTGGCGCCAG
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

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FIGURE 5530

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCCCACAGGGCTGCCACTGCTGCTCGGCCCTCTGCG
CCCCACCAGCACCACAGCCACCCAGTCCCACACCCAGCCCACCCCGGCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCCCGCGCCCCCCCCACCTGCTCAGTGCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTCATCAGAT
GAGGAGAATGGGCCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGCGGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGCGCGCTCCGCCCCGTCCCACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCTCCTTGCGTCTCCATTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCGCTCCTTCCAGCCCACGACCTGCCGCGCGGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCTAGCGACAGATTCTTCTATTAAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTGTTTTCCGCTAGCGACAAGGGATTGCTCGCACGGCATTGGCTCCATCCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTTGGGGGCGTGGCCAAGCCCTCCTCTTCCAGAATTGGCCCCGGGGCC
TTCAATTTACGTTCTTTTACACTACGGGGACTGGGGTCTGTTTGGCCACGTCCCGACAACCTGTTCCCTGACCCC
CTCAGGGATGGCCCCAACTGTCCCTGCCTCTGGCACCCCTTTCATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAGAGATTTTACCTCTGAGAT

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FIGURE 5531

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCCGGGCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCCC
CATCTTCCTGCCCTCGGACGGGCAAGCCCTGGTCCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAATCCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGAGATCCTGAGACCCGGACAGTGGCAGTGAAACAGCTGGGA
GTTAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGA CTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTCACCAAC
CAGATGAGCATCGGGCGCGGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCCCTTCAGGTGCTGGTGGCCACGCACGCAGGCTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC
CCGGCCA ACTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGAGGTGGTT
GTCGAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCGAGCCGCGGGCGTC
CCCTGCCGCTGCTTCCTCTTCACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGAGATGACGGAC
TCCTCTCATATCCCCGTGTCAGACATGGTCATGTATGGCTACAGGAAGCAGTTCGAGGCCCCAACGCTGGCTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCTCCACAATAACGCTGTTTCTCCTTG

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FIGURE 5532

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCCGGCCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTTAATGGTGGTCTCTCTGCTGAGACGGAATTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTC AACACAGTGGACTGCGCTCCCGAGTCTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTGTACCTGGCTCGATGGCATTAAAGTTTCATGGGCGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGACGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCTCTCATCTGCAACTACCCCCATACTTGTTCCTGCTGTTGAGAGCACCACGTACTC
TGGATGCACAAGTGAAGTCTTGTGACGAGATTGGGGAGCGGGGGATCCACTTCTCCATTGTGTCTCCCCGGA
GCTGCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGTCTGCTGTTGGGGGTGGCTCAGCCCTAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCCAGGACCCCTGGCGCCCCCAA
GCCACCACCTGCTTCCAGCCAGTCTGCTCTCCACTGTGGCCCTTGCTCCGGCCTGGCTCCACGGGCACAGCC
CGGGGCACCGTCCATGGCAGGCAGTGTGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCACTCTCAATAAGCTTCTGGCCTGGAGCGGGGTCTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAAGTCAAGGATGGTCCAGTTCCATTTACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCATTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGTCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTATCACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCAGGGCTGGGGCCATTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC
CACCGCAGCCCCAGCCTCAGGGTACCGTAGGGGCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCC
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCCAACCCCTCCTGGACCCATCCTTCGGC
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGAGACTGGGGTGCCCC
CACCCCAGGCCTCCCTCCACCACCTGCCAGTCTGGCCCGCACAACCTCCCCCTCGGGCTCCACTGCCAGGTAA
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAGACCAAGTGC
TCCTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTTCCCCAGCCGGGCTGCAGCCAGCGTCATGGAGGA
CGACATCTCATGGATCTCATCTGAATCCCCAACCCCAATAAAGTTCCTTTTTTAACACAAAAAAAAAAAAAA
AAAA

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FIGURE 5533

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGLRKHYLLPAIEYFNNGPPAETDFGGDYGGTQYSLVVFNTVD
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCLLICNSPP
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPA LRLLFEKAAPPALLEPLQPPTDVSQDPRHMLVRG
LVLPVGGGSALGPLQSKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGLAPTAQPGAPSMAGTVAPGG
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLESKGLYRIMGNGFAGCVHFPHTAPCEVRVLM LLYSSKKKIFMGL
IPYDQSGFVNGIRQVITN HKQVQQQKLEQQQRMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW
GHGAAPAPRYCPAPARCPSRPSWSSFWPTPSWTHPSAEPWGPQSAAKPPPQPTTAADWGAPTPGLPPPPAQSWP
AQLPPRAPLPKGKTRGRAEVWTECPSSSWARAPRPSAPGK

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FIGURE 5534

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCCTAAATGAGGGGAGGAGGGGACGGGCGGCACTGTGCATCTG
CTGTGCCCTCGCGGCTCCAGCGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCCGCCGTCAGCAG
CTCCCGTTCTCTGTTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT
GCGAGGACCGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATCACCTCATTGTTCTGTCACTGAG
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCAAATGGTGTGGAGCCATGGTCCTTCTGTGGGACTT
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCCTCATCGACAGC
TTCCTGGGGGACTCGGAGCTCATCGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTC
TTGCAGGAAGCCCTCTCCGGGTTCGCTGAGGCCGCGGGCACGACCTTCGTCAGTCTGGTGGTGTCCGGCCGGGIG
GTGGCAGCAACAGAGGGTGGTGGCGGCTGGGGACGCCCCAGGCCGCTGCTGCTCCCCTGGCTGGTGGGGTCCCTG
CCGCCGCAGACCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCCACCCCTCAGCCAGTTGTATCCACAG
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCC
AGTGGCTTCCCCCTTACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAAGTGAAGCGCTGCCTCTTCACC
GTGGAGCCCTTGGGGGATAAAGAGCCTTACCAGAACAGCGCCGGCGCCTCCTCCGAACTTCTATACCCTGGTC
ACCTCCACGCACTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTGCTGGTGGCCTTGCAGCTGGGGCTT
CGGCGGCTGCTGCTGCTGTCTCCCCAGAGTCCCACCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT
GCCCTCACCCCACTTCTTGAAGTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT
TATTCGCTCACAATAATACACAGCCCCTGGATGGGGAGGGGGTAGGAGGGGCTACAACAGGTGGGGTGGGAGGG
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGGACTCCCCCTA
ACCCCCAGAATGTAAACAGCAGCAGATGAACAAAATAAAAATACAAAAGGCCGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5535

MGEETGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF
HDSITLIVLSSEVGISELRRLERLLQMVFGAMVLLVGLEELNIRNVERLKKDLRASYCLIDSFLGDSELIGDLTQ
CVDCVIPPEGSLLEALSGFAEAAGTTFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP
HGSPVPHRLTLTLPSLELCLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLL
LLHLELKRCLFTVEPLGDKEPSPEQRRRLRNFTLVSTHFPPEPGPPEKTEDEVYQAQLPRACYLVLGTEEPG
TGVRLVALQLGLRRLLLLLSPQSPTHGLRSLATHLHALTPLL

6001/6881
FIGURE 5536

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCGGGTGCCACGGCCTGCCAGCCCCCGCCCCG
CCCCCAGCCAGCCCTCCCCGCGGCCGGCTCGGCTCCTTGGCGCTGCCTGGGGTCTTTCCGCCCGGTCCCCGCT
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCATCATGCCGGCCGTGTC
CAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGAAGAGCAAAGAGCGGAAAT
TAAGAGAATCAACAAGGAAGTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGGATGGCTACAGTAA
GAAAAAATATGTGTGTAACTGCTTTTCATCTTCTGCTTGGCCATGACATTGACTTTGGGCACATGGAGGCTGT
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCAATTTCTGTGCTGGTGAAGTCTGAA
CTCGGAGCTGATCCGCCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGTGCCT
GGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGACATCCCCGCATCCT
GGTGGCCGGGACAGCATGGACAGTGTCAAGCAGAGTGGCGCCCTGTGCCTCCTTCGACTGTACAAGCCTCGCC
TGACCTGGTGCCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTAC
GGCCGCCGTGAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT
GTGCGCCTGAGCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTACTTCTGCTCCAGCACC
CTGGCTCTCGGTGAAGCTCCTGCGGCTGTGTCAGTGTACCCGCCCTCCAGAGGATGCGGCTGTGAAGGGGCGGCT
GGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTCCAACGC
CAAGAAGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCAACCTCCTGGTTGGGGC
CTGCAACCAGCTGGGCCAGTTCTCTGAGCACCAGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC
GCTGGCCAGTCCGAGTTCTCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA
GCGGGACGTGAGCGTGCAGGAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT
CGTGTGCGGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT
CCTGGCCGAGAAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCATCCGATTGCGGGCGA
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTACCAACCGTGATGACGTCCAGGGCTATGCCGC
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACAGAGAACATGGTGAAGGTGGCGGCTACATCCTTGG
GGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGCTGTCCACCTACATCAAGTTTCATCAACCTCTTCCCCGAGAC
CAAGGCCACCATCCAGGGCGTCTGCGGGCGGGTCCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCGAGC
CGTGGAGTACCTCACCTCAGCTCAGTGGCCAGCACCGACGTCTGCGCCACGGTGTGAGGAGATGCCGCCCTT
CCCCGAGCGCGAGTCTCATCTCGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGCCGCGAGCGCCCTGGACGA
TGGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGCATGGAGCCCAACCCAGCACTGTGTGACGCCCTC
GCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCTCCCCCGGCAGCACCCCGGGCTTCTGCAGGAGCAGGGAA
CCTTCTGGTGGACGTCTTCGATGGCCCGGCGGCCAGCCAGCCTGGGGCCACCCCGAGGAGGCCTTCTCAG
CGAGCTGGAGCCGCTGCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC
TGAGGACATCGGCCCTCCATTCCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGAAGAACAACGGGGTCT
GTTGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCTGGGCCGATGTATCTCTTCTA
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTACCCACTGTGGTTACCCGGGAGACCTCCAGACTCAGCT
GGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG
CCTGCGGGACTTCTGACGCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCT
GAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCACCGAGATGGCGGCCAGGATTCTTCCAGCGCTGGAA
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCAACCCATGGACGCAGAAGTTACTAA
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCTGGGGGCGGG
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCAGGCCAGATGTACCG
GCTGACCCTGCGCACCAAGGAGCCCGTCTCCCGTACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT
GGACTCTGCCCCGGGGATGTGGCCGGCACTGGGCAGCCCTTGGACTGAGGCAGTTTGGTGGATGGGGACCT
CCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTCTCTCCGGCTTTTGTATTTTATTTT
TGTTCATCTGCTGCTGTTTACATTCTGGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTCCCCCACAAGCAGAGA
GGGGAGAGGGGCCAGGGAAGTGGATGTCTCTCCCTCCCACCCACCTGTGTAGCCCTCTACCCCTCC
CATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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FIGURE 5537

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACCTTATGTGACCCCG
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAAGCGCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

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FIGURE 5538

MPVARSWCHKTYVTPTRRPFESRLDQELKIGNVLLRRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK
LGLAKSIHHAGVLIRQRRVRVRNQVANIPSFIVRLDSQKRIDLRLSPYGVAAPAA

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FIGURE 5539

GTGGGCAGCCGAGGCCGGAAGTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCCGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTTACTCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGTGCTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGTGCTGCCAAGGCCGGGGCCCGCAAGGTATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGAT
CAAAGATGTGGCCATTAAAGGAGCCCCTAGTGGATGTCTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTGAGGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCTAGGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 5540

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVLDVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS
ASGWATASSTSPCSTPCSMPTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWENVYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLTVKTGEEIFGTIGMRPNAKNNRDLDTIDLDFKGQLCELSCTDYMR

6006/6881
FIGURE 5541

AAGTAAGTATCCCCACTTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG
CCTCTACCTCCTGCACCTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTT
CAACACAGAACTTCCATTCAATTCCCTCCGACTGCCCGCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTTC
GAGACTGAACATCCCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT
TCCTCTTTCCCTCCTTACCTTTTCTAGTTTTCTGACGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTGCGGGCGTGCGGGCAGCTGGAA
CCCACCCCTGTCTTGAGCTCCGGGTAGCTCTCAAACTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAATAAAACCAACTTTATCATTCTTTGGGTAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGGCTGTTCCCGCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAAATTGAGCGTGCACCCAGCGTTCCGCGCTTTCTACGCTGGGCCGTTATCGACCCGCCCC
AGTGCGCAGGCGCGGGAAGTTGAACATAATAAAGTTGTACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGGCGGTGGGGCCCCGGACCAAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCCTAGCTGCCTTCCTTAGGCGTGGTGAGGCTGCCGGGTCTCCTGTTCCAACTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCCTCGGCCTTGCTCTCTGCCCCATCCGCCCCCTGCTATGGTTTAGAGCCTGGCCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCAGCGGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCCAGAATT
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCCAAGCCGAGCATGCCCCGGGGCCCCCGCCTCCTTC
CCCGGAGCCCCTGGCCCGCCTGGCCCTAGCCATGGAGCTGAGCCGGCGCGTGGCCGGGCTGGGGGGCACCCCTGGC
CGGACTCAGCGTGGAGCAAGTGCACAGCTTCACGCCCCTGGATCCAGGCCCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTACCCGTGGACTTGAACCTGCCATTGGACTGA

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FIGURE 5542

GGTTCCAGCTGCCCCGACGCCCCGACCTTCCATCGTAGGCCGGACCATGGGAACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTTCGCAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTTCGGAATCTTCCAGGCCTGGGCCGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTTCGAGGTGACAGCCTTCTA
CCGGGGCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCGGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCACGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTGGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCCGGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCTGAGCCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTTCTGCTATGAA

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FIGURE 5543

MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLPT
WKRNFSAALNRKEGLRLAEDRSKDPHDPHKIYEFVNSGVGDFSQPDTSFDTNNGGSTSDTQEDILDELLGNMVL
PLPDPGPPSLAVAFPCPQPLRSPSLDNPTFFPNLGPSENPLKRLLPGEWEFEVTAFYRGRQVFQQTISCPEG
LRLVGSEVGDRITLPGWPFVTLDPGMSLTDRGVMSYVRHVLSCLGGLALWRAGQWLWAQRLGHCHTYWAVSEELL
PNSGHGPDGEVPKDKEGGVFDLGPFIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKVPTCLRAL
VEMARVGGASSENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGCTCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCGAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCTGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCTTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGCGCTGCCGAGTCCACGGTCAGAGCCCCGTTCCAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTGGACATGGCCACGGACAGCTTCTCGCAGGGCTGGTGAAGTGTCTGGATCCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCGGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCCATCCTCTGCTGTGCCAGCCTGCTGCCCCGTCTCAGGGCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCAACTCCTTAGGCCACCTGTGCCCGTACCTCACCTTGGGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCCCTCCTGTCATCCTCCTCCCCCTTCCCCCTTCTCCCTCATCTCCTCCCCCTCCCCCTCCCC
CACCCCAACCGCCCCCTGCACCCCAAGCCCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCACCG
ACGAGGCCTACTCTCCACCGCTGCTCCGGAGCAAAAGTACGACCCCTTTGAGCCACCGGCTCCAACCCAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGAGGAAGACGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCCGCCGGACGCGCAGCCACACAGCCGACTCCCGCCCTGGAA
CGCCGCCCCAGGTGGACTCCACCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGGACCGAGGCAG
AGGCTTGTGGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGTGGTGGAGCCGCCCTCCCGCCGCCCTGCTGC
CGCCCGGCGACTCGGAGATCAGGAAGGGGAGATCGTCCAGCCGAGGAGGAGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCGCGCGCCGGGCGCCCGGCTTACCGGCGCGCTCGGCCACCCCAAGGCCAGCCCTTCTCTCAGC
CTCCCGCTCCCGGGGCCCCGAGGGGGACGACTTCTGTCCCTGCATGCGGAGTCGGACGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCCCGCGGCTCGCGCTGGGGCGGCTGGACCTGCGCCGCA
AGATCCTGACCCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGCGCCCGCGCCCGCCCGCGCCG
CTGCTGGTCCGCCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTCGGGACCCAGCCAGCGCCGCCCGCCCGGCTCGCCCTGGGACTCCAAGAAGCACCGCTCGCGGGACC
GCAAGCCCGGCTCCACGCTCGTCTCGTCCGCCCGCGCGGCTCCCGCTCCCGCTCCCGCTCCACCCGCC
GCCGCTCGCGCAGCACCGACCGCCGCCCGGGGGACGCCGAGGTGCGGCTCCCGGGAGAAGCGGCGACGGCGGC
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCTCGTCTCGTCTCGAGGCGCGAGCGGCACCGCGGGAACACC
GGGACGGTGGCGGCAGCAAGAAGAAGAAGAGCGGTGCGCGTCCCGGGGTGAGAAGCGGTCTGGGGATGGCAGCG
AGAAGGCCCGCGCCCGCCCGCGCCCTTGGCTCCACCTCGTGTGGTGACCGCGACAGCCCGCGCGGGGGG
CCGTGCCACCTCCATCCAGGACCTCACGGACCACGACCTCTTCGCCATCAAGCGGACCATCACGGTGGGCCGGC
TTGACAAGTCCGACCCCGAGGACCTCTCCTGTCCGGCCTCCTCACCTAAGCGGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCCGCTCGGGGGCGGCTCCTCCT
CCTCCTCTTCCCGGGAGAAGGGGTCTCGTCCGAAGCGCTGGACGGGGTGACCGGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTATCCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCCGCAA
AGCCACAGTCAGCAGCGGCTCAGGCTCTTATCTCTCGTCTCTCTCTTCCCGGAAGGTGAAGTGCAGT
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTCTAGCAGCACCACCCCGGCCAAGGATGCCGCGTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTACCCGTGACCGCGAGAGTCTGCTCCCTTCTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGCGACCAAGCCCAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCCAAGACCAGGAAAAAGGTCCGCACTGGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTCTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGCAGGCACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGAGGAGCGGGCAGCCAAGGTTTCTAGCACCCCGCCCCCAAGGCAGCCCCACCAC
CCCCTGCCCTCACTCCGGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCCTGCTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCCA
GCGCGGGGTCCACAGCCGGTGACTCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGGCGTCTGGCCTTGACTGCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCCAGGAGCTGATCCAGGCCACCAACCAGATCC

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FIGURE 5544B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCAGCTCCTGTGCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTCGACCCCCCCCACCCCCACGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCAGGCCGCCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC
CCCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCCAAGCCTGTCCCCAGTGCCCCCTCCCTTCTGTTTGTGCCCTCTCCCC
AATTTCAATTAAGATTTTCATGAAACATT

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FIGURE 5545

MSILYFHPFSRDLHSLSPDPQVTMEEEDSRGKTEESGEDRGDGPDRDPTLSPSAFILRAIQQAVGSSSQGD
LPNDKDGSRCHGLRWRRRCRSPRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESDM
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKTVSPQSNSSRPTCARHLTLGTGDGGPAPPPAPSSASSSPSPS
PSSSSPSPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGNSPSSSAGTPSPEEEEEEEE
EEEEEEEEEEEEGLSQSISRISSETLAGIYDDNSLSQDFPGDESPRPDAQPTQPTPAPGTTPQVDSTRADGAMRR
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEPRLALSIFRPGGRAARPTPAASA
TPTAQPLPQPPAPRAPEGDDFLSLHAESDGEALQVDLGEPAAPPAADSRWGGLDLRRKILTQRRERYRQRSPS
PAPAPAPAAAAGPPTRKKSRRERKRSGEAKEAASSSSGTQAPPAPASPWDSKKHRSRDRKPGSHASSSARRRSR
SRSRSRSTRRRSRSTDRRGGSRRRSREKRRRRRRSASPPPATSSSSSSRRERHRGKHRDGGGSKKKKRSRSR
GEKRSBGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGSPAPASS
PKREVLVDSEGLSGEERGGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRSSKKARPPKE
SAPSSGPPPKPPVSSGSGSSSSSSSSCSRKVKLQSKVAVLIREGVSSSTPAKDAASAGLGSIGVKFSRDRESRSP
FLKPDERAPTEMAKAAPGSTKPKTKVKAKAGAKKTKGTGKTKPSKTRKKVRSGGGSGGGGGQVSLKKSKADSC
SQAAGTKGAEETSWSGEERAAKVPSTPPPKAAPPPPALTPDSQTVDSCKTPEVSFLPEEATEEAGVRGGAEEEE
EEEEEEEEEEEEQQPATTATSTAAAAPSTAPSAGSTAGDSGAEDGPASRVSQLPTLPPMPWNLPAGVDCTT
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSLGMPAPVPTSLGLPPGPSSYLLPGSLPLGGC
GSTPPTPTGLAATSDKREGSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYQKKDITKEEYKDILRKAVHKI
CHSKSGEINPVKVSNLVRAIVQRYRYFRKHGRKPGDPPGPPRPPKEPGPPDKGGPGLPLPL

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FIGURE 5546

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCCATTTACGCCTCCCGAGTAGCT
GGGATTACAGGATGACGCGGCATGGCAAGAAGTGCACCGCAGGGGCCGTCTACACCTACCACGAGAAGAAGAAGG
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTTCGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTACCCCCAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCGGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG
TGAGCCGGCCCTCAACCCTTTCACAGCCAAGGCCCTCTCGGGCACCCAGCCAGATGATGTCCAACCTGGGCCCCA
GTGTGGGTCCTCCAAGTAAGGACAAGGACAAAGTGCTGCCCAGCTTCTGGATCCCGTCGCTGACGCCGAAGCCA
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCATGTGAGGGAAGCCCTGCGCATGTGCGGACC
TGACGCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGGGGCTCATCACCCGCAGCGAGCGCTACG
TGTGTGCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA
CCCTCGAATGCGTGGAGAAGCTGATTTCGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCG
ACATCATCGTGCTGCAGCGGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAA

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FIGURE 5547

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNI RLSRDAVKDFDCCCLSLQCHDPVVTPDGYLYEREAILEYIL
HQQKEIARQMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP
PSKDKDKVLPFSWIPSLTPEAKATKLEKPSRTVTCMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSERYVCAV
TRDSLSNATPCAVLRPSGAVVTLECVKELIRKDMVDPVTGDKLTDRDIIVLQRGGTGFA GSGVKLQAEKSRPVMQ
A

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FIGURE 5548

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGATTAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAATTCCTTGAGCGGCAG
ACACCCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAACCACAAGCGTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGTGGGGCTGGATGTTCTTGGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGAGGCAGGA
AGCGGAGCGAGGCTGAAGGGAACCTTCCTCTCAGCATGGGGGTCCCGCGGCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCCGAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACAGGTGTCTTGGTATTGGGAGAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACCTGGGCCCTGACAACACCTCGGTGCCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTTATGAATTTGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCTGCTATTCTCCTGCCCCGACCGCCTGCGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCTCCGGAGCTGCAACTTCGGTTCCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCCTCGTCGTCCT
AACAGTCAAAGTGCGGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTGGATCTCCCTTCGTGGAGA
CGACACCGGGGCTCTCCTGCCCCACCCAGGGGAGGCCAGGATGCTGATTTGAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGGCATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCTTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTCTGGGCCTAGTTGTCTCCTCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCCC

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FIGURE 5549

TTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTGAGCTGAGCGTGCCTACCAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5550

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCCCTCCGCAAGCGGATGAACACCAACCCTTCCCG
AGGCCCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCTGCTGCCCTCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTGAGGCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTGCCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGA
AAAAAAAAAAAAAAAAA

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FIGURE 5551

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAFLRKRMNTNPSRGPYHFRA
PSRIFWRTVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVPAAALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKREKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 5552

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGCAGGGCCCCGCGCCCGCGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGACTGGGCGGGCTGTTT
GAGAGGTTCGAGACGGGACGTCCAGCTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCATGGGAGTAAATTGGCCTCATCCTGCCACCCACATTCTCCTTCCTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCTCCCCGGCGC
CCCTCCTCCTGGCCAGCTGGCGGGGAGCTGGGCCCCCTTCCCGGGAATCCTGAATGTCTCAGTGGCCCTGCGT
CCCTGGTGCCCATCCTGGCCTCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCTGGCGCTGGGGACGGAGTCGCTGCTGCTGA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGTGACGCCGCTGTCGACCGCGGCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGGCCGGGGGGCTGCCGATGTGACCTGGTCCAGCGCTTTG
TGCGTGAGGCCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGATGTGCCCTTCGGAACGCCCATTTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTCTGTGGCCT
CCCCCTTCGCGACAGCCAAGGAGGCACTGTTGGTGGCCAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCCACGGCC
TCAGAGACCCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTTGCCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCGGCTGTCTGCTCTCCAAGAACCTGAACATATGACACCTTTG
GCCTCGCTGTGTTCCCTCAACCTGCCGGCTGGGCTGAAATAGGGCCCAGCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCGGCTTTCAGGCTCCTGGGGCCCCGAAGCTCCAGGCCCATCCGGGATTCTGCTGGCAACCTCCATGGCT
ACGTGGCTGAGGGTGGAGCCAAGGACATCCGAGGTGCTGTGGAGGCCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCGGCGAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCTTG
CCTCGAGGCTGGAGAGGCAGGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCGGTGCAGGCCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGACGAGTGGCCCTGTCTGCTTCTGCTGCCCTGTGCTGG
CTCCCCGCTGGCCTACGGCAACACTGTGGTCACTGGTGCCAGTGGGCTGTCTGCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTTCGGATCAGCCCAGGGTTCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGGCTGGGACCAGGAGCCGAGGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGGACTTGATGCCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTG
TTCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTGGAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAATCTCGGCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACACACCTGGCTCGAGGCCATTTAGTTCTGAGGTTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTGTGAAACAGAGAAAGGGGACCCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTGTCTTCTCCATCTGGTGGCTCTGCTCTGTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACCTCTCTGGAATAAAATTAAAGTCCTCCT

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FIGURE 5553

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGGLRLLIQESV
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRFVREASQGAQVFQAGDVPSEPFYPPTLVSNLPP
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQVGTVWINAHGLRDP SVPTG
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA
ELKAAEALEVELSARRLRWAGARVQAQGHTLQVAGLRGPVLRRLREPLGVLAVVCPDEWPLLA FVSLLAPALAYGNT
VVMVPSAACPLLALEVCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV
WASRGCPRAWDQEAGAGPELGLRVARTKALWLPMD

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FIGURE 5554

ACAGTTCGGGCACGTAGGACGGAGGGTAGTGCCTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCCG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTCCG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTTGCAGCTGAATCCGGAATGGCGCATGATGAAGAACCGCCATTCAITGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCCG
CCCCCGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAAACTGGATGGAGCCCTGGGGCTGTGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGGTGCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAAGATTTTTGCCTTTAAAAAAA
AAAAAAA

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FIGURE 5555

MANPKLLGMGLSEAEAIGADSARFEELLQASKELQQAQTTRPESTQIQPGFCIKTNSSEGKVFINICHSPSI
PPPADVTEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQCTAYDVAVNSDFYRRMQNSDFLRELVITTIAREGL
EDKYNLQLNPEWRMMKNRPFMGSISQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHNLWLEAPDLLLAEVD
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKAAFHRKRKQLMVAMPLLPVPS

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FIGURE 5556

CCCACTTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCCGCGGCTCCCCAGCCCC
AGGCCGGGAGGCCAGATGAGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCGGATGCAGAGGGGGTGTG
GAGCCCAGACATTGAGCAGAGCTTGCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGAAAAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGGAAGACCCG
AACTCGAAAAACAGGTTTCTAGTCACATCCAGGTTTGGCCCCAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA
GGACCAGGTTTCCAAGGACAAGGCTTTCAGACAATGGCAACCATGTCTCTGCCAGCTCATCTCCGCGCCTTC
TCTGCAGGCCAAACTGGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTTGGTCTGGAGGATCTGGGGC
CCCCTGGAATGTTCAGATGTGAAGCCATTCTCAGACACCGTTACCTTGTCACTGACTCCCCATCTACTGA
CCTCCAGGGTACGAGCCCCCAAGCCCTCTCACCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC
TCGGGGCCTGGGCACCGCCCGGTTCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATT
TTACCAGAGGCACCTGTTTCGTGCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATCCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCA
TGCCTTCTTCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAG
CATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCCTACCTGTTCTC
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGGCCAGCTGGAGGACGGCAGATT
TGTGTACCGCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTCTTGCACAAGTTGCGGCAGCTGCCTGA
GCGATACATGATGAACAGCGTCTTGAAAACTTCACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACT
GCTGCTCTGCACCGCTATGTCTTCAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACATTTACCGCTGGT
CAGGGACTGAGAGGGGACCCCAAACTGGCTCACCCCCAGAACACCTCTCTCCAGGGAGGGTCTCTCAGCTCA
CCTCATGCTTCTTATTTGGGAGAGGGCTGTGATGTAAAGGGTTGACCTCAGAGGCCTAAGCAACTGGGGCCAT
CCCCCATTAGAGGGGCCCCCAAACTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGA
GACAACCCCCCAGGTACAGCACTGGCTTTTCTTTTCAGCCCCTGACAGGCCACCCCCACTCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGCCCCCTTTACTTTTTCCCAGCCACCCCTCCCCCTGAAATTTCTGCCCT
CTCTACCACCTCACTCCATGACCTGTGAGATCACAAAGTGAAGATGAACCCCTTTCTGTGCAGGAGCAGAGCCAG
GTGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC
TCCCTGCACAAGCAGTGTGTTGAATTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC
TTCTCCCTCTCAAAGTTTGTGTTGTGTTCTGACAGAGGATAAAGCTATTTTACCAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5557

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL
GPTGPQASELFQFWSGGSGPPWNPVDVKPFSQTPFTLSLTPSTDLPGYEPPQALSPLPPPTPSPPAWQARGLGT
ARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDRVRIYDKFPEKKGGLRELYDRGPPHAFFLV
KFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKVCSEFGKQVVEKVETERAQLEDGRFVYRLL
RSPMCEYLVNFLHKLRLPERYMMNSVLENFTILQVVTNRDTQELLCTAYVFEVSTSERGAQHIIYRLVRD

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FIGURE 5558

GTGGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCCTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGGTGGAGATGATCCGGGAAGGGAAGATTGCCGGTCCG
GGCAGTCCCTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACTGACCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGAGTGGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGAAACGCAAGGTTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTACTCTTCTGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTTGAGTTGGATGTATCCCCGAC
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 5559

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIEGEVVEIQIDRP
ATGTGSKVGKLTLLKTTMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLRSFTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 5560

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGGCCCCGCACCCTACCTGGTGCATTCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCTTTAAACCGCACTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTCGACCTGGAGAACGCAGTGCTCTCGAAGTGGCCTGGGAGGTGGCTAACAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACCTACTTCTGGTGGGGCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAACCTGCTGGAGGCCCCACCCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGATTTTCGGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGTCTCTGGACGTGGGTGCC
TCAGCTTGGGCGCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGGCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTCTGACCACCTGGTTCTGGGTGAGTTCTGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGTCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTCCCGGCGACTG
CCTGTAGCAACCATCTTACCACCCATGCCACGCTGTGGGGCGCTACCTGTGTGCCGGTGGCGTGGACTTCTAC
AACAACCTGGAGAACTTCAACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCAGATCACCGCCATCGAGGCACAGCACTTGCTCAAG
AGGAAACCAGATATTGTGACCCCAATGGGCTGAATGTGAAGAAGTTTTCTGCCATGCATGAGTTCCAGAACCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTATCGCCGGCGCTATGAGTTCTCCAACAAGGGTGTGACGTCTTCTGGAGGCATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCTTCTTCATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAACCCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAACACGGTG
AAGGAAAAGTTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTTCCCCCTGTGTGCACCCAC
AATATGCTGGATGACTCCTCAGACCCCATCTGACCACCATCCGCCGAATCGGCCTCTTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTCCACCCGGAGTTCTCTCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACCTTGGAGTCTTCCCCTCCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTTCCGGCTTCGGCTGCTTCATGGAGGAACACATCGCAGACCCCTCA
GCTTACGGTATCTACATTCTTGACCGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACCTCCTTCCTC
TACAGTTTCTGTGTCAGAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGGAGCGCCTCTCCGACCTTCTG
GACTGGAAATACCTAGGCCGGTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCTTTCCAGAGCACTTC
ACCTACGAGCCCAACGAGGCGGATGCAGGCCAGGGGTACCGCTACCCACGGCCAGCCTCGGTGCCACCGTTCGCC
CTCGCTGTACGACACTCCAGCCCGCACCAAGAGTCAAGGACGAGGAGGATCCCCGGAACGGGCGCTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCCGCCAAGGACCGGCGCAACATCCGTGCACCAGAGTGGCCGCGCCG
AGCGTCTGCACCTCTCCACCAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCCAGCGAGCCCCCTAGCCCCACAGCTCCCTGGGCGAGGAGCGTAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCTCTCTGTCTCCAGAGAGAGGATGCAGAGGGGTGCTGCTCTCTAAACCCCGCTCCAGATCTGCACTG
GGTGTGCCCCCGAGTGCCCCCACCCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCTCTGC
ACTCCAGAATCCACAAAGCCGTGCCTTTCTGTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG
GTGCTTTCAGGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATCTTACAGCATACAGAGCAGGCCACGCT
CAGGCCCGGCATGCGGGCCACCAAGTTCTGGAAACACGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTCAGAGTTTGAAGGTAACCTGAGAGCAGATGGTCTCCATTTCACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTGAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCTCAT
CCCCCTACACTTTGGCCAAGCAAGAGGTGGTAGAACCACTTGGCTGCTCATTCCTTCTGGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTTCTAAATCTGAGATCTCCC
TCCAGGGAATCCGCCTGCAGAGGACAGAGCTGGCTGTCTTCCCCACCCCTAACCTGGCTTATTTCCAACTGCTC
TGCCCACTGTGAAACCACTAGGTTCTAGGTCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAAGTGAAGTCACTGGGTTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCAGCTTTGGTGAAGGGAGGGCCCTCATGTGTGCTGTGCTGTGCTGACACCGCTTGG
TTTGCAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

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FIGURE 5561

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQQVVRT
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLI EGGLVVL LDVGASAWALERWK GELWDT CNIGVPWYDREAND
AVLFGFLT TWFLGEFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE
NFNVDKEAGERQIYHRYCMERAAAHC AHVFTTVSQITAIEAQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS
KARIQEFVRGHFYGHLDENLDKTLTYFFIAGRYEFSNKGADVFL EALARLNYLLRVNGSEQTVVAFFIMPARTNNF
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQRQSFPPVCTHNMLD
DSSDPILTTIRRIGLFNSSADRVKVIHFPEFLSSTSPLLPVDYEEFVRGCHLGVPFSPYEPWGYTPAECTVMGIP
SISTNLSGFGCFMEEHIADPSAYGIYILDRRFRSLDDSCSQLTSFLYSFCQQSRRQRIIQNRNTERLSDLLDWKY
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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FIGURE 5562

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC
GCCCTCCGATTTCTCTCCGCTTGCAACCTCCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG
CACC GTTTTGTGGTTAGCTCCTTCTTGCCAACCAACCATGAGCTCCAGATTGTCAGAATTATTCACCGACG
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATT
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT
ACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG
ATGAGTGGGGTAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGG
ATCTTCATGCCCTGGGTTCTGCCCCACGGACCCCCATCTCTGTGACTTCCTGGAGACTCACTTCCTAGATGAGG
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGG
GCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGACTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTCTTAACATCCTAACAAAG
CCTTGGACCAAATGAAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5563

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEKREGYERLLKMQRGG
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT
NLHRLGGPEAGLGEYLFERLTLKHD

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FIGURE 5564

GCTGCGGCCGCCCCGCGCGGACCCGGCGAGAGGCGGCGGGAGCGGCGGTGATGGACGGGTCCGGGGAGCAGCC
CAGAGGCGGGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA
TCGAGCAGGGCGAATGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAA
GCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT
GGACACAGACTCCCCCGAGAGGTCTTTTCCGAGTGGCAGCTGACATGTTTCTGACGGCAACTTCAACTGGGG
CCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAACGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAACGTGAT
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTG
GGTGAGACTCCTCAAGCCTCCTCACCCCAACCACCGCCCTCACCACCGCCCTGCCCAACCGTCCCTGCCCCC
CGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTCACAGTGGTGCCTCTCCCATCTTCAGATCATCAGA
TGTGGTCTATAATGCGTTTTCCTTACGTGTCTTGATCAATCCCCGATTATCTACCCTGCTGACCTCCCAGTGACC
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT
CAAGTTCATTGATGACCTCTGACCCTAGCTCTTTCCTTTTTTTTTTTT

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FIGURE 5565

MDGSGEQPRGGGPTSSEQIMKTGALLLQGF IQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDELDNME
LQRMIAAVD TDSPREVFFRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLDFLRERLLG
W IQDQGGWVRLKPPHPHHRALT TAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYNAFSLRV

[illegible]

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FIGURE 5567

MPPSGPRGTLILLPLLLLLLLRAVLAVPLERGA PNKEETPATESPDTGLYYHRYLQEVIDVLET DGHFREKLQAA
NAEDIKSGKLSRELD FVSHHVRTKLDELKRQEVSRMLLKAKMDAEQDPNVQVDHLNLLKQFEHLDPQNQHTFE
ARDLELLIQ TATRD LAQYDAAHHEEFKRYEMLKEHERRRYLES LGEEQRKEAERKLEEQQRRHREHPKVNVP GSQ
AQLKEVWEELDGLDPNRFPKTF F ILHDINSDGVLDEQELEALFTKELEKVYDPKNEEDDMREMEERLRMREHV
MKNVD TNQDR LV TLEEF LASTQRKEFGDTGEGWETVEMHPAYTEELRRFEEELAAREAE LNAKAQRLSQETEAL
GRSQGRLEAQKRELQQA V LHMEQRKQQQQQQGHKAPAAHPEGQLKFHPD TDDVPVPAPAGDQKEVD TSEKKLLE
RLPEVEVPQHL

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FIGURE 5568

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCAGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCTTCAG
CTGTTTGGAGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCCCTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCAATCCGCCGG
CTCATCGAAGTGGAACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCAGGCGCGCGCTCCTGTTGCTCATTCTCTGCCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCTCTGGCTGTATGGGCCCCAGCCAGCTCACCAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGTGCTGGAGCTGGTGACGCCCCCGCTGAATGGTGTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGTGAGTTCCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCCTTGCCAGGTCTGCCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCATATCCCACCATGGAAAATGGGCCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCAGCCCTCGTCGCGGGTTAGGTCCGCCCCATTACTCCTTGTCGTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTTTCTC
TGCTTTGCTGCAATTTTGAAATAAAATGCCAAAGAACACAAAAA

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FIGURE 5569

MAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGPELVFGKFTDHLMLMVEWNDKGW
GQPRIQPFQNLTLHPASSSLHYSLQLFEGMKAFKKGKDQQVRLFRPWLNMDRMLRSAMRLCLPSFDKLELLECIRR
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFPGGSVTPVSLLADPAFIRAWVGGV
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRQS
LLDMAQTWGEFRVVERTITMKQLLRALEEGRVREVFGSGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE
LKEIQYGIRAHWMPV

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FIGURE 5570

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG
AGAGCCCACCGCGCCACAGCTTGGAGGAAGAGCCTGCGGGGAACCTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG
GTGCTGGCTCTGCTGTGACCATGCCCGTGACCTTTGCCCTCCTGCTCCTCCTGGGCCAGGCCACTGCGGACCCAT
GCTACGATCCACAGGGCCGCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCCCTCTGCC
CTCAGGCCTGTGCCCTGTCCCAAGGAAACCACCTTGGCGCCAGGGAACCTGCAATGGCAGCCTGACTTTGGCCC
TGGGTGGCCCTTCCTCCTGACATCTGTGACGCTTGGCTTCTGTACCCCAGGACCCCAAGCCCTCATCCTGTCTG
CTGCCTGGGCCTCAGGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG
AAAGGGTGACCTTCCACTCCACACCAGGTCTTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG
GCCAGGCCGGGTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTGATGGCCACGCTGCCCGCTGTGCCGCCC
GTGCCCGGCCCGCTGCCACTGCCGCCACCATAACCTAGGCCGGGGTGGCAGAGCTGCCGCCCGTCCCATC
GAGACTGGCCCTGGCGGCCTGCCACGCCCGGCCACCCCAACCTTGCTTACCTGCTCCTGCAACCAGCAGCCCC
GACGCTGCCGGTTCAACTCTGAGCTGTTTCACTGTGCGGGCGGCCGAGTGGGGGTGTTTGTGAGCGGTGCCGCC
ACCACACAGCTGGGCGGCCTGCCACTACTGCCAACCTGGGTTCTGGAGGGACCTAGCCAGCCTATCTTCAGCC
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACCAGTGGGCAGT
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCCA
GGATGCCCTGCCAGCGAATTCCAGAGGCAACAACCACCTTGCCACTACTCCTGGTGCTTATAGCTCTGACCCCTC
AGTGTCAAACTACTGCAATATGTGCGACACCAGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGCGGGCCCGGCATGGCAGCGGCTGGCCGTGCGCGTGTGGCCG
TTTACAAGCAGCGGGCGCAGCCCGTGCAGCGCGCGACAGGACGCTGGGTGCCCCGCGCCGACCTGACCTGCG
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGGCAGCCCCGACCCACGCGCC
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGGCCCGGCCCTGAAGCGGCTGCAGCAGG
AGGAGCGCGCGGAGGCTGCCGCGGCGTGCGGGCACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG
GGGCTGCCTCGAGCACCAACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCAGTGA
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCACGCCGAGCAGGCGTGCGGAACTTTT
AGCAAAAGGCGGCAAGCGGGACTTCTGGTCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCCCCGCCAGTGAT
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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FIGURE 5571

CTTTCGGACCTGGCCGAGCAGGAGGCGCCATCATCGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGCGCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCTGCTC
TCCGGTCTTCGCAAGGGCCGAGAGGTGTACCGGCATTTGGCAAGGCCCCAGGAACCCGACAGCCACACCAAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTCGAGCGTGCCAGAGGCGGACGGGCCAGCCGAGGCTACAAAACTTAA
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTGTGCTGACAAAAAAA

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FIGURE 5572

MGVDIRHNKDRKVRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPLSLSRMIRKMKLPGR
ENKTAVVVGITITDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKCGTVLLSGPRKGREVYR
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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FIGURE 5573

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCTCCAGGTGGTGGGGCAGGTGCT
TCCATAGCCCCCTCCTGGCTCCTTGGCTTCCCCTCCCTCCTCTCCCCACAGACCCTACGTCCGCTCCAAGGGCCG
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCCCTGGATCCTACTCTCTTATTA
AAAAGATTTTTGCTGAC

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FIGURE 5574

GGCACGAGGGTTCTGAAGATGGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG
AGTCCGGCGACACAAGTTCCGAGGGCCCGGCCAGGTCTACCTGCCCGCGGGGGCCCGCTACGCGAAGGGG
AGGAGCTGGTCATGGACGAGGAGGCCATATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCCTCTTACACTTTACTTGTGTGCTGGGACCCAGG
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCACCCTCAG
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA
TGGTGCCCCACTATGGTGGCATCAACCGAGTTCCGGTGTGATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT
CAGAGAAGGGCCAGGTGGAGGTGTTTGCCTGCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG
CCTTCCTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCCC
TTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAGAACATCCACCTCTGGACACCTA
CGGACGGCGGCTCTTGGCACGTGGACAGCGGCCATTGCTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT
CACCAGCTGAGAACACGGTGTGTTGCCTCTGCTCAGCTGACGCTCCATCCGCATCTGGGACATCCGGGCAGCCC
CCAGCAAGGCCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGG
AGCCCTTCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCT
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTCGAGTGGCACCCCCAGGACAGCGGGGTCTTTG
CAGCCTCGGGTGCAGACCACCAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCCTAGGCGGGCGACGTGG
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACCAGGGCGAGACCGAGCTGAAGGAGC
TGCACTGGCACCCGCAGTGCCAGGGCTCCTGGTCAGCACGGCGCTGTCAGGCTTCACCATCTTCCGCACCATCA
GCGTCTGAGGCGTCCCACTGGCTCTGATCTTGCTTCTGCTTGGAACTGAAGTCAATTTGGGCTCCCCCTGGAAG
GGGTTTCATTTCAGGTCTGTTGACTGAGACTGGCCGGCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTACCAAAGAACTCGGTTTAACCAGGGCTCTGTAAGACCA
CTCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCCCTTCCTGTGCTGAGCTGTGACCCATTGTA
CCTGTGTCCCCAGAACCCAGTTTTTTGTTTGTGTTGTTGAGACGGAGTCTTGGTCTGTGCCCCAGGCTGGAGTGC
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTA
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTAGTAGAGACGGGGTTTTACCATGTT
GGCCAGGCTGGTCTCAAATCTTGATCTCAAGTGATCTGTCCGCCCCGGCCTCCAGAGTGCTGGGTGGGATTA
CAGGCGTGAGCCACCGCGTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTTCACGAGGGGACTCGGGGGATATA
CAGTGGCTGCACCAAATTGGAGGTGTGGGTTCTCCAACACAATTGCTTCTGCCCCTGTCTTCTGCCAGCTG
GGTTTGGCCAGGATTTCTCCGTGTGGGGGCTACATGCGACCTCTCCCTCCTCCCTGACTTTAGAGGCTGGTGC
TGTGTCGGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA
AAAAAAAAAAAA

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FIGURE 5575

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH
LGDNRTELPLTLYLCAGTQAESAQSNRLMMLRMHNLHGTPPPSEGSDEEEEEDEEDEERKPQLELAMVPHYG
GINRVVSWLGEEPVAGVWSEKGQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEFALDWSPR
VTGRLLTGDCQKNHILWTPTDGGSWHVDQRPFVGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM
LTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVEWHPQDSGVFAASGAD
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWHWPQCPGLLVSTALSGFTIFRTISV

FIGURE 5576

[illegible]

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FIGURE 5577

MNLFREFLDLSHLLAIILLLLKIWKSRSCAGISGKSQVLFVVFRTARYLDLFTNYISLYNTCMKVVIACSFSTTV
WLIYSKFATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTFSIYLESVAILPQLFMVSKTGEAETITSH
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDDFYLYITKVLKGKKLSLPA

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FIGURE 5578

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTGTCAGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGGAGAGGGGCGGGACCTGGAGAGAGGCTGCTCCGTGACCCACCAT
GTCTCTCCTACCACGAGTTCCCTGGATACCCCCCTGCCTGGAAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGAGCCGTGGCCCGGGGTCCGGACCTGATGTCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTCATCCCAGATCCCGAAGAGGAACCAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCTCCGGCTTCCACTACAACGT
GCTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCGTCTTTCTGAAGAACAGATCCGGAAGAAGAAGATTCCGAAACAGCAGCAGGA
GTCACAGTCACAGTCGAGTCACCTGTGGGGCCGAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAATAAT
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCAAAGTCACGCCCTG
GCCCCTGGGCGCAGACCCCACTCCCGAGATGCCCCGCCAGCAACGCTTTGCCCACTTCACGGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCCTGGTTTCTGCAGCTGGGCGGGAGGACCAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCACCGTGCAGGCCTGCAGGTGGAGTTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGCGGCTGGGCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCCAACGTGCAGGAGCCGGGCGCGGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTACACGCGCATCAAGAGGCCGAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCCCTTGGCGCTCCAGGACAAGAAGCTGCCGCCTCT
GCTGTGCGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCCCTGACCACCTCCA
GCAGATAGACGCCGGCACCCCTTCTCTTCTTAGGGTGGAAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCCTCCCGGCTGCCTCCCTCCCGAGCTTACACCTCAAGCCCAGCACG
CAGTGCACCTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCGGGAGACCAGGGCCTTCTCTT
CCTCTGCTTTTATTTAATAAAAACTAAAAACAGAAA

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FIGURE 5579

MSSPTTSSLDTPLPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDPEEEPERKRKK
GPAPKMLGHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK
EAGMREQCVLSEEQIRKKKIRKQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQSGEGEGVQLTAAQEL
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGLQLGREDQI
ALLKASTIEIMLLETARRYNHETECITFLKDFTYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI
NIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPP
LLSEIWDVHE

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FIGURE 5580

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAACGCTGTTTGAAGCGGGATGGATGGCAAGCGGCGGCCAG
GCCCAGGGCCCGGGGTGCCCCAAAGCGGGCCCGTGGGGGCTCTGGGATGATGATGATGCACCTTGCCCATCCC
AATTTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCCAG
CGCAGCCTGTGCCTGGGGGGCCCCCACCATCCCGCGGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCTCTGTCTGTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGACCTGCAACGGGAGCTGAACCTGGCCATCAGCCGGGACAGTCGCGGGGGAGGGAGCTGA
CTGGGCGGCGCTGTGCTGGCTGTGGAACCTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGCCCCCTCCC
CGTTCTTCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCGCGTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCTGGGCACGCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGGTTTCATGGTGGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTCAGCTTCGATATCGAGTGCGCCGGCCGCAAAGGCATCTTCCCTGAGCCTGAGCGGGACC
CTGTTCATCCAGATCTGCTCGCTGGGCCTGCGCTGGGGGGAGCCGGAGCCCTTCTACGCCTGGCGCTCACCCCTGC
GGCCCTGTGCCCCCATCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA
CCTTCATCCGTATCATGGACCCCGACGTGATACCGGTTACACATCCAGAATTTCGACCTTCCGTACCTCATCT
CTCGGGGCCAGACCCTCAAGGTACAAACATTCCCTTTCTGGGCCGTGTGGCCGGCCTTTGCTCCAACATCCGGG
ACTCTTCATTCAGTCCAAAGCAGACGGGCCGCGGGACACCAAGGTTGTTCAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCTTG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATACCGACCTGCAGAATGGGAACGACCAGACCCGCCCGCC
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGGCTGTGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGCTGATGCCCGTGGTGAAGTCAGAGGGCGGCGAGGACTACCGG
GAGCCACTGTTCATCGAGCCCTCAAAGGTTACTACGACGTCCCATCGCCACCCTGGACTTCTCTCGCTGTACC
CGTCCATCATGATGGCCCAACCTGTGTTACACCACGCTCCTTCGGCCCGGACTGCACAGAACTGGGCCTGA
CTGAGGATCAGTTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTCGCGGAAGGGGCTGTGCCCC
AGATCCTGGAGAACCTGCTCAGTGCCCGGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC
GCCAGGTCCTGGATGGACGCGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCCTGGAGATCTCACAGAGCGTCACGGGGTTTCGGACGTGAGATGATCGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTATGTGCCGATTCCGGCTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAAGGTCTACTTCCCATACCTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCTCTCCGGCCCGACGCCACGACCGCATGGAAGGCTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAACTGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTATCTCGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCTCCGACTATGCCGGCAAGCAGGCCACCGTGGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGGAGTGCGCCAGCCTGGGCGACCGCGTCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCTACATGAAGTCGGAGGACCCGCTGTTCTGTGCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCCCTCTGCGCATCTTCGAGCCCATCTGGGCGAGGGCCGTGCCAGGCTGTGC
TACTGCGGGGGGACCACACGCGCTGCAAGACGGTGTCTACGGGCAAGGTGGGCGGCCTCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGCTCAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTATCTGCACCAGCCGGGACTGCCCCATCTTTCATATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCTGCGGCGCTTCGGACCCCTGGACCTGAGGCCTGGT
GACCTTGCAAGCATCCCATGGGGCGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGCT

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FIGURE 5581

MDGKRRPGPGVPPKRARGGLWDDDDAPWPSQFEEDIALMEEMEAHRLQEQEEEEELQSVLEGVADGQVPPSAI
DPRWLRPTPPALDPQTEPLIFQQLEIDHYVGPAQVPVGGPPPSRGSVFVLRAFGVTDEGFSVCCHIHGFAPYFYT
PAPPFGPEHMGDLQRELNLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGPPSPFLRITVALPRLVAPARR
LLEQGIIRVAGLGTSPFAPYEANVDFEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADVLSVDVSHPP
EGPWQRIAPLRVLSFDIECAGRKGIFPEPERDPVIQICSLGLRWGEPEFFLRLALTLRPCAPILGAKVQSYEKEE
DLLQAWSTFIRIMDPDVITGYNIQNFDLPYLISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRRTKVVS
MVGRVQMDMLQVLLREYKLRSHTLNAVFSHFLGEQKEDVQHSIITDLQNGNDQTRRLAVYCLKDAYLPLRLLER
LMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEDYTGATVIEPLKGYDVPFIAT
LDFSSLYPSIMMAHNLCTTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKAEIA
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLISQSVTGFRQMIKTKQLVESKYTVENGYSYSAK
VVYGDTSVMCRFGVSSVAEAMALGREAADWVSGHFPSPIRLEFEKVYFPYLLISKRYAGLLFSSRPDAHDRMD
CKGLEAVRRDNCPLVANLVTASLRRLIDRDPEGAVAHAQDVISDLCNRIDISQLVITKELTRAASDYAGKQAH
VELAERMKRDPGSAPSLGDRVPYVISAAGVAAYMKSEDPLFVLEHSLPIDTQYYLEQQAKPLLRIFEPILG
EGRAEAVLLRGDHTRCTVLTGKVGGLLAFARRNCCIGCRTVLSHQGAVCEFCQPRESELYQKEVSHLNALEER
FSRLWTQCQRCQGS LHEDVICTSRDCPIFYMRKKVRKDLEDQEQLLRRFGPPGPEAW

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FIGURE 5582

GCCTCCTTCCGTCTGTAACCTAACCTAAAGACCCAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGCCCGGCAGCCGCTGCCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGGTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATGGGGCCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCTCCAGGGACGTATCACAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA
GCCCCTCCGCATCATGACGTCACAGTGGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCACGGGCCGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTCGA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTTCCCTTGAAGTTCGTCCAGCTCTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGAGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTTCGGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCCTCTCTGCTTCTGCTGTGCCCTTACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACCTCTGGGGACTCTGAGTCTTCCAGCATCCTTCAAGGTACCCGAATGACCAGAG
ATCAAAGTACCTTGCCCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAGAACCAA

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FIGURE 5583

MGPPLWPDLEPPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLRPLPSDGDAMRRDRGPKPALG
GAGEVEPGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTSDLWPQVTRLGEVANEVTMG
VAASSPALELPDLLLLAGPAKENGHLQLFGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFYLRAPLKTRDREFG
QWVRLLYRLRFLSASAVPFTQE

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FIGURE 5584

GCCGTCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCGGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGGAGGGGGCTGG
GGCGGAAGGTCGAGAGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTTGAGATCGATGACAG
TGCCAACTTCCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCG
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC
GCACCTGTGCGACCAGCTGACCTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCCAGAAGGCCAAGAAC
CCCCAGGAGCAGAAGTCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCTGTTCCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGTGGTCCCTCCTTTCCCCCGTCCCACGAGGCCACCTGGGCCAGCCCCCTTGCTCTGCGCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCCATGGAGTAGAGCCCGAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCTTTGTTC
CAGGTGGTCTCACCTCCTGTCCCTGGCTGGGCTAGGTGGTCCGTGCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCTTGAGGGTACCCTGGGTCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCGACGCCTAGTGCAGCCCTGGGGTTCGTGGTTTG
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCCTCCCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTTGAAAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCTGATGTACAAGCTTGATTGAAATTCAGTCTCACTT
GATACGTTATTAGAAACCCAAGGAATGGCTGTCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTGTGT
GGCAGTTTATTAAACTGTCCCCAGATCGACACGC

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FIGURE 5585

MAAASAGATRLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSL
WNQQDGTLSLSQRQLSEEERGRLRDVAALNGLYRVRIPIRRPGALDGLEAGGYVSSFVPACSLVESHLS
DQTLHV
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQS
FFAK
YWMIIPVVLFLMMSGAPDTGGQGWGWGWGWGW

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FIGURE 5586

ATGGGGGTGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCCACA
CCTGTCACCTCCACGGTTGCCTTGCTGTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCACCCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCGCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCCTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTCTTGCACCGCCCCCTGCCCCACCCAGAGACATGGATGGAGGGTGTGTTCTGTCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGTGAGTCACTTGACTTACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGAGTCAGCAGGAGCCTGGGGTGGCGAGAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCTGTTACTATTATTGATGTTATTATTATTAATAGAAATAGCAACCGAG
TGCCTGCTTTATCAATACCAGCATTTCCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGAGCTGCTGAGCACCCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCCTCTGAAGTGCTTTTCATCATCCTCCTCGTGATCCGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCGCAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCAGCCTCAAC
ACGCTGGAGCTTTTTGACAACCGGCTGACCACGGTGCCACGCAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCATCGAGAGCATCCCTCCTACGCCCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTCAAGCGGCTGGAATACATCTCGGAGGGCGCCTTCGAGGGGCTGGTCAACCTGCGCTACCTC
AACCTGGGCATGTGCAACCTCAAGGACATCCCAACCTGACGGCCCTGGTGCGCTGGAGGAGCTGGAGCTGTGCG
GGCAACCGGCTGGACCTGATCCGCCCCGGGCTCCTTCCAGGGTCTCACCAGCCTGCGCAAGCTGTGGCTCATGCAC
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTGGCTGGAGGAGCTCAACCTGTCCCAAC
AACCTGATGTGCTGCCCCACGACCTCTTCACGCCCTGACCGCCTCGAGCGCGTGACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCAGCAACACGACGTGCTGC
GCCCCTGTATGCGCCCCGCCGCTCAAGGGGCGCTACATTGGGGAGCTGGACCAGTCGCAATTCACCTGCTAT
GCGCCCGTCATCGTGGAGCCGCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAATGCCGCACG
GGACCTCCATGACCTCCGTCAACTGGCTGACGCCCAACGGCACCCCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGTCATGACGGCACGCTTAACCTTACCAACGTACCGTGCAGGACACGGGCCAGTACACTGGTGGT
GTGGAGGGGGCAGTGGCGGCTACACCTACTTCAACACGGTGACCGTGGAGACCCCTGGAGACGCAGCCCGGAGAG
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCACGACAGACGGTGTCTGGGGTGGGGGCGCG
CCTGGGGACGCGGCCGGCCCTGCCTCGTCTTCTACACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTACGGTGCCCATCACGGATGTGACGGAGAAGCCCTCAAGGACCTGGACGACGTATGAAGACCACAAA
ATCATCATCGGCTGCTTCTGTGGCCATCACGTTTATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACCACGGGCCCACGCGCACCGTGGAGATCATCAACGTGGAGGACGAGCTGCCCGCC
GCCTCGGCGGTGTCCGTGGCCGCCGCGGCCGCGGTGGCCAGTGGGGTGGTGTGGGCGGGACAGCCACCTGGCC
CTGCCCCCCTGGAGCGAGACCACCTCAACCACCACTACTGTTGGCTGCCGCCCTTCAAGGCGCACTACAGCAGC
AACCCAGCGCGGGGGCTGCGGGGGCAAAGGCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCCAAGGAGAACGTGCAAGAGACGCAGATCTGA

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FIGURE 5587

MAAAGLEAGVGAVGSHRPGVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPRLPVFPAAA
RNQASRVICTRRDLAEVPASIPVNTRYLNQENGIQGGRTWLLPSDHPESQIQGRKGSQGSPPFLVAVGQGP
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGSLRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL
PGTGSPAESLDFTEPWSPVSEMTCDALHQGCRGSQQEPGVPRQLRELQAGAISDDRDLMLLLLLMLLLLLIEIAT
ECLLYQSPAFFPREVISCVWAWYKFLNANDNDNNENDDLSTPEHWDLISSPSPSEVLFIILLVVIRTDTFKHLRH
LEILQLSKNLVRKIEVGAFNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNP IESIPSYAFNRVPSLRR
LDLGELKRLEYISEAAFEGLVNLRYLNLGMCNLKDIPNLTA LVRLEELSGNRLDLIRPGSFQGLTSLRKLWLM
HAQVATIERNAFDDLKSLEELNLSHNNLMSLPHDLFTPLHRLERVHLNHNPPWHCNCVDLWLSWWLKETVP SNTTC
CARCHAPAGLKGRYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAELKCRGTGTSMTSVNWLT PNGTLMTHGSYRV
RISVLHDGTLNFTNVTVQDTGQYTGCVGGGGGGYTYFTTVTVETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG
RPGDAAGPASSSTTAPAPRSSRPTKAFTVPITDVTENALKDLDVMMKTKIIIGCFVAITFMAAVMLVAFYKLR
KQHQLHKHHGPTRTVEIINVEDELPAASAVSVAAAAVASGGGVGGDSHLALPALERDHLNHHHYVAAAFKAHYS
SNPSGGGCGGKGPPLNSIHEPLLFKSGSKENVQETQI

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FIGURE 5588

CACTCATTAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCTGCAGGTGTA
CAGCCGGGCCCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCCACCCGGCTGCTGATGGCCT
GGTGGCAGCTGGGAGTCTCCCGGCACTTCGAGGCCACTGAGCCACCCTTCAGCCCCAGCCACCATGGACAGG
GGTATCCAGCTTCTCCTCAACCTCGTCTCTGCCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGCATGACAGTGCTGGAGGCCGTCTTGGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCCGAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGCAACAAGGA
CTTGGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCGCTTCCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCTGGCCTGGTGTCTCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGGTTTGAGCTGCATTAGGAAGTGCGGGACATGGTAGGGGAGGCCAAAAAGCCTTGGGCACTACCTCCCTGTGG
AGCTGTTTCGGTGTCCGTGAGCTAGCCACACCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCTGTGGGTGTCACTGGCCAGATGTCAAGGGAAGCAGGCCTTGTGAGTGGACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCCCACCCCTCCACCACATGGGGCCCCAAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTTGA
CATAAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5589

MTVLEAVLEIQAITGSRLLSMVPGPAPPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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FIGURE 5590

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTACCAATGTGGGTCCCGGTGTCTTCCTCACCTGTC
CGTGACGTGGATTGGTGCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCAGAGAAGCATTCCCA
ACCCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTCGGCGGTGTTCTGGTGCACCCCCAGTGGGTCTCT
CACAGCTGCCCCACTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTCTGGCACAGCCTGTTTCATCCTGAAGACAC
AGGCCAGGTATTTAGGTGAGCCACAGCTTCCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTTCCT
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGCTGCTCCGCTGTCTAGAGCCTGCCGAGCTCACGGATGCTGT
GAAGGTCATGGACCTGCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA
AGTTCACCCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTGCTCGGG
TGATTCTGGGGGGCCACTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT
GCCCGAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC
CTGAGCACCCCTATCAACCCCTATTGTAGTAACTTGGAACTTGGAAATGACCAGGCCAAGACTCAAGCCTCC
CCAGTTCTACTGACCTTGTCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA
GACCAGAGTGTCTTAAATGGTGTAAATTTGTCTCTCTGTGCTCTGGGAATACTGGCCATGCCTGGAGACAT
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG
GTGGGATCCACACTGAGAGAGTGGAGAGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCTCTGGAGGCACTGGGAAG
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT
GGACCCCTTGGAAGCTGATTCACTATGGGGGGAGGTGTATTGAAGTCCTCCAGACAACCCCTCAGATTTGATGATT
TCCTAGTAGAACTCACAGAAATAAGAGCTGTTATACTGTG

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FIGURE 5591

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCI RNKSVILL
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGT
TCYASGWGSIEPEEFLLTPKKLQCVDLHVISNDVCAQVHPQKVKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

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FIGURE 5592

GGCGGACAAAACCCGATTGTTCTGGGCCCTTTCCCATCGCGCCTGGGCCTGCTCCCCAGCCCGGGGCAGGGGC
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCGGCTGGCTGGCTCGCTCTCTCCTGGGGACACAGAGG
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTTCCTTCCCCGACTCAAGAATCCCCGGAGGCCCGGAG
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA
GAATAAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCCA
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCCACTGCAAAAAACCGAATCTTCA
GGTCTTCCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCAGGAGCAGAGTTCTGTTGTCCGGGCTGTGAT
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCACGCCCAGCCAAACTCTC
TGAACATCCAGCCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA
GCATGCCTACCCCTGGCCAGATCACCCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTTGCCA
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTGATGGGGTAACATCCCCTGTGG
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACCTGGATCCAAAAAACCATTCAGGCCAA
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCAGAACGTCTCTACCTAGAC
CTTGCCCTCCCCTCCTCTCCTGCCCAGCTCTGACCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCTGATTCT
CCCTGGTTTTTACCCAGCTCCATCCTTGCATCACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCTCGGTCTT
ACCCCCACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTCCACACGTTTGATT
TCTTCCTGCAGAGGCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTCCGGTGTCCCCTTGGGATGTA
CCTTTCTTCACTGCAGATTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACTCAATAAAGAATGA
ATTTT

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FIGURE 5593

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTCTGACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGACAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT
CTTGACTGGCCACAGGGCACATTGCGCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCTGGAGACCCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCAGAGATGGCAATAAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

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FIGURE 5594

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGIHVEVPPAEERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA
SQVTLEGDKLKVEREIDGGLETLRKLPAVVTADLRNLPYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 5595

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCACTACCGCATCAGCCTTGCCCCACCCTTT
CAGGGTTCCTAAATCTGGCCAGTCTTTCTGCCCTTTCCTTGCGGTCTTCCCTTGTCATACCCGTTTCTTG
ATCGCTACGGACCTTAAATACCAGCAACAGCCCTTCGCCCCAAGACCATGTAGACAACCCACTCAGGTCGTG
TTCCTGCTTAAACCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCTCACTCGGGAGGAGGAGCA
CTGCAGACAGACAGTGGGGAGAAGGTGAAAGAGTTGGAGCCGACGCCGACAGAGCTACGTGGTGTGGGACTGAA
AGAGAGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG
GGGGTGTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA
GAAGCCCAGAAGAGGAAGAAGAGGAAAGAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTCAGG
GATGTAGCCATAGAATTCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCTAAATGTATGACCAAGGAATTACCACCAATA
GGGAACAGTAATACAGGAGAAAAATGCCAACAGTGACGCTGGAAAGACATGAATGTTATGATGTGAAAAATTTT
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAATAAATTATAAAGAA
GTGCCAATGACCTATAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAATGT
ATTGAAATCAGCTTACATTAAGCTTTAGTCACGCTGACTGAACTGCAGAAATTCAAACTGAAGGGAAAAATT
TATGAGTGAACCAATCTGAGAAGACAGTTAATAACAGTTCCTAGTTTCACCACTTCAAAGAATCTTCTCTAGT
GTCCAAACCAACATTTCTAAAAATATGAGAAAGAGTTTTTGACGCTGTCTATTACCCACCAACTTGAGAAAACA
CACATTAGGGAAAAACCTTATATGTGTAAAGGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTCATCGGGGCTCACTACTA
ACTATACATCAGATAGTCCATACAAGGGGGAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT
TCAGATCTTGTAATCACCGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCCTTT
AGTCAAAGTTATAACCTTGCAATACATCAGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG
AAAACCTTCAAACAAGGCTCATGCCTCACTACACATCAGATAATCCATACAGGAGAGAAACCATATCAATGTGAT
ATATGTGGCAAGGTCTTCAGGCAGAATTTCTAATCTTGTAATCACCAGAGAATCCACACTGGAGAGAAACCATAC
AAATGCAACATATGTGGAAAGTCCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTTATAGTGGAAAC
AAACCTTACAAATGTGATGAGTGTGGCAAAACCTTTAAACGGAGCTCCAGCCTCACTACACATCAGATAATCCAT
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTTACAACCTTGCAAGGCACCAG
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAGACTTCACATCTTGTG
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAAGGTCTTTAGT
GAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGTGGCAAG
GTCTTCAATTACAGTGGAAACCTTTCAATTATAAGAGAATACATACGGGAGAGAAACCTTTCCAATGTAATGAA
TGTGGCACAGTCTTCAGGAACCTACTCATGCCTAGCACGTATCTAAGAATTCATACTGGGCAGAAACCTTACAAA
TGTAATGTGTGTGGCAAGGTCTTCAATGACAGTGGAAACCTTTCAAATCATAAGAGAATTCATACTGGAGAGAAG
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTAGTTACTACTCATGCCTAGCACGTATCGGAAATTCATACC
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTATACTCAGCGTTCAAGCCTCACTAAACATCTGATA
ATTCATACTGGAGAGAAACCTTACAATTGTAATGAGTTTGGAGGGGCATTTATCCAAAGTTCAAACCTTGCAAGA
TATCAGAGAAATCCTACTGGGGAGAAACACACAAATGTAGCCATTGTGGTAGAATTTTAGTCATATAACAGGC
CTGACGTACCATCAGAGAAGGCATACCTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTC
TTTCGTATCAATCAACACTAGCACGTATCGGAGTATTCATACTGGAGAGAAACCTTACGTGTGTAATGAGTGT
GGCAAAGCCTTTAGAGTGCCTTCAATCTGGTTAATCATCAGAAAATGCATACTGGGGACAAACCTTACAAATGT
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAGCCA
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCTCAACAAACACCAATGATTCAATCTGGA
GAAAAACCTTATAAATGTAATGAGTGTGGCAATCTTTCAATAGTCGCTCAGGCCTCACTAAACATCAGACAAA
CATACTGCAGAGAGTCTTAAACAAAATTCATGTGGAAAAGCCTTTAGATGTTCTCTAACTTCTGGTCTTTAC
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAATTTAA

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FIGURE 5596

MPYKCIECGQVFNSTSNLARHRRRIHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK
SFISRSGLTQKHQTKHTAESLTKTFNVEKPLDVLLTSGFK

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FIGURE 5597

AGCACAGCGCTGGCCGAGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGGCCGACGGCGAGCACTCGCTG
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTGAGCTTCGCCTCAACAGCATCAAGAAGCTG
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCCTTCCCTTACAGATACCATCTAT
GATGAAGATGAGGTCTCTCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAGGCCAGAGTAC
GTGCACTGCCGTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGGGACAAGGCAGTGGAG
TCCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG
GCGGGCGGCGACTGGTTACCTCCCGCACCTCGGCCCTGCGGCCCTTCTCTCCGTCTGCTACCCCCGAGTGTCCAGT
GCTGTGAAGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGGCCGCA
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCATGTTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGCCTGAACATCGCCAGCTTCTG
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGCGTCCGC
TACATGGTGGCTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCTGAGATACCAAGACAGACCTGGTCCCT
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGACGCTCCACAAAGGTCAAAGAGTTCTGT
GAAAACCTCTCAGCTGACTGTCGGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAGACAAC
ACCATCGAGCACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATGTGGAG
CTGGCTGAGGACGCCAAGTGGCGGGTGGGCTGGCCATCATTGAGTACATGCCCCCTCTGGCTGGACAGCTGGGA
GTGGAGTTCTTTGATGAGAACTTAACCTCTTGTGCATGGCCTGGCTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCCATGCCACAATCATCCCCAAG
GTCTTGGCCATGTCCGGAGACCCCACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG
GTCTGTGGGCAGGACATCACCACCAAGCACATGTACCCACGGTTCTGCGCATGGCTGGGGACCCGTTGCCAAT
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGGCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGACTGTT
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACACTGGCCTCTGGTGTCCACCCTCCAACCCCCACAAGTCCCT
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCAGGCCCTTCCCCAGCA
CGGTTCTCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCCAACGGGCTAGGGGAGCACGGGGTTGG
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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FIGURE 5598

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG
AAGAATGTGACAAAGCTTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT
ACAAGTGTAATGAATGCAGCAGGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG
AGAAACCTTTATAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAATCGAACCTTGAAAGACATA
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAAT
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTTACAAGTGTAATGAATGTGGCAAGACCTTTA
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAATGAGTGTGGCA
AAGCCTTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAAACCTTTACAAATGTAATG
ATTGTACCAAGTCTTTAGTAATGCTACAACCATTGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA
AGTGTAATAGATGTGGCAAATTTTTTCAGACATCGTTCATACCTTGCAGTTTCATTGGCGAACTCATAGTGGAGAGA
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAAATTCATA
CTGGAGAGAAACCTTACAGGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA
GACTTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGACCTTCGGTCGAAATTCAGCCCTTATAA
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGGCCTTCAGTCAGAAGTCAT
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTTCAGTC
GCAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAGGTTTTGTGACAAAG
CTTTTGGGCGTGATTACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGTAATGAAT
GTGGCAAGAACCTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACTGGAGAGAAAC
CTTACAAGTGTAAGTGTGGCAAGGTTTTTAATAGAAAAGCAAACCTTTACAGTCATCATAGACTTCATACTG
GAGAGAAACCTTACAAGTGTAATAAATGTGGTAAGGTTTTTAATCAACAAGCACACCTTGCAATGTCATCATAGAA
TTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAATTC
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCAAGGTTTTTAATCGAAAAGCAAAC
TTGCACGTCATCATAGAAATTCATACTGGAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTTACAGTTGTA
AATCAAGTCTTGAAAGACAGGAGAAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTTGTGACAAAGATCT
TGGGCGTGATTACACCTGGCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTAAGTGTGG
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAAACCTTTACTAATGTAA
TGATTATCACAAGTCTTCAGTAACACTACAACGTTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAAA
GTGTAATAAATGTGGCAAATTTTTTCAGACATTGTTTCATACCTTGCAGTTTCATCGGTGAACTCATGCTGGAGAGAA
ACCTTACAAATGTCATGATTGTGGCAAGGTCTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG
GAGACAAACCTTACAAGTATGATGATTGCAGCAAAGCCTTTACTTCAGTTCACACCTAATTAGACATCAGAGAA
TCCATACTGGACAGAAATCTTACAAATGTCATCAGTGTGGCAAGGTCTTCAGTCTGAGATCACCCCTTAAGGAAC
ATCAGAAAATTCATTTTTGAGATGATTGTTCCAAATGCAATGAGTATAGCAAACCATCAAGCATTAAATTGGCATT
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAAATTGACATTAAAGTGTT
TATGTTAAGAAGATTGGGCCAGGCGGGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACCAATAG
ATCACTTGAGGTGAGGAGTTTGAGACCAGACTGGCCAAACAGACATGAGTCACTTTCCCAACCTGTATTTTGTTT
CTTTAATAAAAACCTGTTACGGGTT

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FIGURE 5599

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYKC
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCRRLHTGEKPYQCNECGKAFRGQSALIYHQAI
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTSAGEKPYKCEECDEAFSFK
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALIIHKAIHTGEKPYKC
ECGKAFSQKSSLTCHRLRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYCKVCDKAFGGRDSHLAQHTRI
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKSECGKVFNRKA
NLSRHHRLHTGEKPYKCNKCGKVFNQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKTIIHTGEKPYKCNE
CGKVFNRKAKLARHHRIHTGKKH

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FIGURE 5600

AGAAACAGTGGTGCGCGGAGAGGAGAGGCCCTCGGGATGCTCTTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTCACTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATT
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG
AATACCGCGTCATCGTGGATGCCAACCACTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCCTTGGTCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGAAGAACAATGAGAACCTGCAGCAGATCCTCACCATGCCACCA
TCATGGTTCGTACGCTCACCCTCCACCACCCAGGGGCGAGCAGCTGTGCGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCCTGCGACATGGCGCTGGAGCTGAACGCTCCAAGCACCAGCATCTACGAGTATGTGGAGTCCCGGATGTCTCT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCCTGA
CCAACCTCTCCAAGGTGCCCCGCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTGCGGCTTCTCGT
CTACCTCAGTGTGCCCCACACCGGCTACATCTACCACAGTGACATCGTGCAGTCCCTGCCACCGGATCTGCGGC
GGAAAGCGGCCCCGGCTGGTGGCCGCCAAGTGACACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCCTATGAGCTTCGGAGAGATCGAGGAGGACGCTACC
AGGAGGACCTGGGATTGAGCTGGGCCACCTGGGCAAGTGGGCGAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCTGCAGAAGCAGAGCGTTCGTATATGCGGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCTCCAGCGTGGCTTACCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAGAAGTATTTCTCCAGCATGGCTGAGTTCTCTCAAGG
TCAAGGGCGAGAAGAGTGGCTTATGTCCACCTGAATGACTGCGTGTGTCCAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCTTCTGAAGGGCTAGGATCGGGTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCCAGGGAGGAGGCCTTGGAAGAGTCCGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGTCTTTTTTAACTGAGAAAGGAGATTTTTTGAAAAGAGTACAATTAA
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5601

MSLADELLADLEEAEEEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTIAKLWDSKMFAEIMMKIEEYISKQA
KASEVMGPFVEAAPEYRVIVDANNLTVEIENELNIHKFIRDKYSKRFPESLVPNALDYIRTVKELGNSLDKCK
NNENLQQILTINATIMVSVTASTTQGQQLSEEELERLEEACDMALELNASKHRIYEYVESRMSFIAPNLSIIIGA
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAACKT
LAARVDSFHSTEGKVGyelKDEIERKFDKWQEPppVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIRKQA
NRMSFGEIEEDAYQEDLGfSLGHLGKSGSGRVRQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS
SVAFTPLQGLEIVNPQAAEKkVAEANQKYfSSMAEFLKVKGEKSGLMST

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FIGURE 5602

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCG
AAGGAACCCGAAGGGAGACCCCGCTCATTCTCACGGCGAGCTCCAGACCCCGCTCCTTTCCGGAGCCCGTCT
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCGAGCCCGAAGGCCCGCCCTTACGTA CTGGAG
CTCGGATCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT
CCCTGCCCCCGGGGGCCCTGACCGTGGCTTCTTCCCCGGCTGATCTGCGCAGCCCGGGGGCGCCAGAAGGA
GCAGGCGGCGGGGGCGCGCTGGGCGGGGAGGCGTGGCCGAGCTGCGGCGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCCCGGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTATCTC
CATCCCCATCGGCTTCTCTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGAGCAGCCGCTGTGGGCTGGG
GCTCACCTGTTACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCTCGGGACCTGGGCCCTCATTCA
GGCCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG
CCTCCTGGGCTGCCCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGCCACCCCT
GGGGCTGCTGCCCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCCTTCTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCCGGGCGAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCTGGCCGGCCCCGCTCTTGGGCTGCTGTCTCTCTCTCCTCTCACCTCTTCCCGCTGGA
GGCCGTGCGCGAGGACGCTTCTACGCCCGCCGCTGCCGCCCGCCTCTTCTACATGATCCCCGCTTCTTTCGC
CTTCCGCTATGCGCTTCTACGTGGCTGGATTGCCGCCGAGTGGGCTGCATTGCCGCCGGCTTTGGGGCTACCC
CGTGGCCGCCAAAGCCCGGGCGGAGGCGGCCACCCCTCCAATGCCACCCCCAGCAGTCCGGAGAAGGCGGC
TTCCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGCTCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG
CTTCTGACCATCCCGCTGTGCTGGCTGCCGAGGGCGGGCTGGAGTCAGCCCTGCGGGGGGGGGCTGAGCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCAGTGGTTCCTGAAGATGCGCGCCTATGACTACATGTGATGGGCTTCGT
GCTGCTCTCCTTGGCCGACACCCTTCGGTACTGGGCTCCATCTACTTCTGTATCCACTTCCTGGCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGGACGCCCCAGCCGGCGGAAGGCAGCATCCAGCCACCCAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTCACGACGCTCCCTCTGCCAGCTGGTCCCGGAATTCTGTGAACCA
GGCTGCTGTCTCCTCCCCAGAAAGAGTCTTACCTTGGAGAGGGTCTGGAGAGAATTTCTCTTCCCCAGCTAA
ATACCTGCTGCAACTGAAGCAGACCCGGGGGTGTCTCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGAGCACTGCACTT
CCCCAAAACGGAAGGGGCCCTGGGCGAGTGGGTTTGGGCAAATTCCTTTCTTGCATCCACAATGTGGGGTGC
GAGCTTGGGGGCGAGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTCGCTCCACTTTTAGCTCATCGCACCA
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCATTTCACAAAGGGGAACTGAGGTGCGGGTGCGGGGCGCTG
GGGACGGCCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTACCGTGTGTAAATCTTCCCAATAAAGTGTGCACAAAG

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FIGURE 5603

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCCGAGCTGGGTTTGTGCGAAAACCTTATGT
GACCCCGCGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

6070/6881
FIGURE 5604

MPVARSWVCRKTYVTPRRPF EKSR LDQELKLIGEYGLRNKREVVRVKFTLAKIRKAAARELLTLDEKDP RRLFEGN
ALLRRLVRIGVLDEGKM LDYILGLKIEDFLERRLQTQVFKLGLAKSIHHARVLRQRHIRVRKQV VNI PSFIVR
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKGQGGAGAGDDEED

6071/6881
FIGURE 5605

CCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCTCC
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCGCCCTTCACGTACTCGGAGCTCGGAT
CCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC
CGCCCGGGGCCCTGACCGTGGCTTCTTCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCAGAAAGGAGCAGGCG
GCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT
CCTGCCCGGCGAGCAGCTCAGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCCTGT
TCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTACAGGCCAGCCCT
G

6072/6881
FIGURE 5606

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPDRGFFPGLICAARRAPRRSRRRGAL
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPAHPVHLWPPHFAFSGHHPDLGPHSGPA

6073/6881
FIGURE 5607

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAACCTTATGTGACCCCG
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTCTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCGTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

6074/6881
FIGURE 5608

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTCTATAAGACAAAAGAGGA
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAGGAAGAAGA
GGAACGCCCCAAACCAAGCCGCCCCGTGGTGCCTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGCTCAGAGAGAGCCGA
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCATTTTGG
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTGCGA
CTGGATCCACCAGCTGGAGTCTGAGAAGTTTCGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA
GTGAGGATGCCGCCCCGGACAGTGGCACCTGGGAAGCCTGGGAGTGTGTTGTCCCATCGGTAGCTTGAAATAAACG
CTCCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6075/6881
FIGURE 5609

MSDTEEQYEEEQPEEEAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDLELQTLIDVHF
EQRKKEEEELVALKERIERRRSEAEQQRFRTKEKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAF
GGYLVKAEQKRGRQTGREMKVRILSERKKPLDIDYMGEELREKAQELSDWIHQLESEKFDLMAKLRQKYEIN
VLYNRISHAQKFRKGAGKGRVGGRWK

6076/6881
FIGURE 5610A

CGCCCAGCTAATTTTTGTATTTTGGTAGAGACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAACCTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGCCCCCTCAGG
GCCTTGAGTGGCAGCTGGTGGGGCAGCTCTTGCTTGGAGCCGTCAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCTGGTGTGGGCC
CTTGTCTTGCCTCACCCTGTCTCTGCCCTTTCCCTTTCCTGGACAGGGGTCTCTGCAGTTCACAGAAACCCAG
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCGGGCCTCCGACCCGAGCCCCACCCGCTG
TGCTTGCTCCAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCCTGCAGAGCACCAGCAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGTCAATGGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG
GATGACTTCGTGGACCTGTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCTGCTCACC
TGTGTGGAGCGGCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTTCGAGGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAGGTG
CTGCTGACCTTGTGAGGCCAGGAGGCGAGGTCCGAGTCCGTACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGCTCCTGGCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGCGCCTTGCACGCCCTACGC
CCGCGGCTCAGCTGCTTCCACAGCTCCTGTGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTTCTTCCATTATGTCTTCAAC
AACTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAAACCTGTTGTGAAACATCTGCTGCAGCAGTGCCGCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGTGTCAGAACACGAGAGAAGGGGCCAATGCAGAGCAGCTGCGGCAGCTGTGTAAGGAGCTGCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGCCCTGGCGGAGACCAACAAGAAGAATGTTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCCCCGTCTGGGCCAGCCACCTGGTGTCCGGAGTGGAGGCAGCACAGACAGTGAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCCTACA
GATGCCCCGACCCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCCGTGACGCCCTGCAGCTCAGTCTCAG
GACCCACACCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCTTGCCAG
GCCCTTGGTTAGCATCGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCAGCCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCTGCATCCTCAGGCTCCCAATAGCTGCTGGTGGCGCAGCGCGGCCAAATCTTCCGTCTCCCG
TGGATCTCCCGGGTGGGGGCAGGGCGGGTCCCACGATGGCCCCATTGCCCTCATCACCTGACACCCACAT
TCTCTCTCTGGACCCCAAGGAGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCTCCTAGATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAGCAC
AGCCTTCCCTGTTCCGTCCCAGCGGGAGCTGGTGTAGGGGTCCCAGGTTGCCACCCACGTGCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCTTTTAGCTCAGGTCCACCATGGGGGACGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCCGTGCCTTTGCCAGACCCTGCACTTCAACCAGGCCAGTCCGG

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FIGURE 5610B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCTCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTGCCGAGCTTCTATTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

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FIGURE 5611

MGILINRKTDQLVSFLRKDDFVDLLLQHIGTSAIMDLLRLTLCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS
KDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEQEQQSVIVSGIQVLLTLE
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGMLAPPLG
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTTEKGPNAEQLRQLLKELPSEQQEQW
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFPPEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEAQQSGESDGEDGAWQGSQAR
GARLGQPPGVRSGGSTDEEEDEEEDEEEDEEGIGCAARGGATPLSYSPGPQPPGPSWTATFDVPVTDAPTSP
RVSGEELHTGPPAPQGFLSVFQGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQAQALTPPPIPNGSAPEGPAS
SGSQ

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FIGURE 5612

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCTT
CTTCACAAACGGCCCATGTGACACGAAGGCTCAAGGGGGAGCCGCCTGCCCTGGCGCTGCCCCGGCCTCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGCGGGCTCTGAAGAGCCAGACCTCCTCCAGAACCAGT
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGTGTACAGCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCCTGCGACACGGTGC GCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCCTCCGCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAGCTCAAGGTCAAATCAGCATTCCTGCTGCAGAACCTGCTGGTGGGCCACCCCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGC GGCACAGACAGCCCCCTCCACGAGCAGCTG
CTTGAGCCCTGTGCAGCCTGGTGACAGACTTTCGCGAGGTGTGCGCGAGTGTGCGGAGCCGGAACCTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTCAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCAGCGGACGACAGCATGGATCGGTGAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCAGGCCTCTTGCTCCCTCCCACTACAAGGCCCTCTCCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGCTGTGCCAGCCGTCTCTGTGAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGACCCACCTCCCATGCTCTCACTCTCATCCCCGTCTCTTGTCCACACAGCTCTTCCAATAAAGGTGTTT
CTCTCCTCCTTCTC

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FIGURE 5613

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAAT
TCCTTCCGCTACAACGGACTGATTACCCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCTGTG
GTGGTCATTAAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTTGAGCCCCCTGCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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FIGURE 5614

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSFRYNGLIHRKTIVGVEPAADGKGVVVVIKRRSGQRKPAT
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPMVKRKRTRPTKSS

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FIGURE 5615

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGTTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGTCGGGAGGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 5616

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPGSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDKKRALRALRRL

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FIGURE 5617

AATTCTTTCAATTCAGAGTTGAGCAAACGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTTTCTGGGCTCTTTCTTCTTGGCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCTG
TGTTTTCTCATTGTGCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAGAACTGTCTT
CTATTCTTCTCAGTCCCTTCTCTGCATTGTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCTCTCTCCGTCATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTGAAAAAGGTAATGTCCCTCTGTGCTGAGCGAGCACCTGGCACACAGCAGGGAGCCC
AGGCAGTGGGGCTGTTAGGTTCTTATCTCTCCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGTCTGGTCTTCT
GGCTTCCCGGTTCTTCTGCGGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGAGCCTTCGTCCGGGAGTCG
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGTGCTGTCAGCCGGGCACCATGTCGACCTCGTCTTGAAG
CGCCAGATGAAGAACATCGTCCACAATACTCAGAGGCGGAGATCAAGGTTGAGAGGCCACGAGCAATGACCCC
TGGGGCCCATCCAGCTCCCTCATGTGAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGAGCAGTGCAAGGAGAAATGTACGCCGTGCAGACGCTGAAG
GACTTCCAGTACGTGGACCGGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGCC
CTGTGCGCGACGAGGACCGGCTGCGGGAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC
GCCACGGCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCCGAGAGCAGCGGG
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTCGC
GGGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCGTCCCTC
ATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCGACCACAGACCCCTGGGGGGGCCAGCACCCATG
GCTGTGCGCTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGGCCCCCTGTCCCTCCAGCTGCTGATCCC
TGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGACCCCTGGAGGCCTGTGCCCCCTGCAGGACCCCTCAGTTGAC
CCTTGGGGTGGGACCCAGCCCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGGG
GTCCCGGTCAGTGGGCCCTCAGCCTCCGATCCCTGGACACCGGCCCGGCCCTTCTCAGATCCCTGGGGAGGGTCA
CCTGCCAAGCCCAGCACCAATGGCACAACAGCAGCCGGGGGATTGCACACGGAGCCCGACGAGTTCTCTGACTTT
GACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG
GCCCCAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT
GCAGCCACACCAACTCCCACGCCCCCACCCGGAAGACGCCGGAGTCATTCTGGGGCCCAATGCAGCCCTCGTC
GACCTGGACTCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCCTCCAACCCCTTCTGCCAGGC
GGAGGCCAGCCACTGGCCCTTCCGTCACCAACCCCTTCCAGCCCGCGCTCCCGCGACGCTCACCTGAACCAG
CTCCGTCCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC
CTGCCCCCATGATGCCCCGGGGCCCCCGGCCCAACACTAATCCCTTCTCCTATAATCCAGGGCGGAAGGG
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTGTGAGTGCATGTGAAATGG

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FIGURE 5618

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKNWRHVY
KAMTLMEYLIKTSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLVALLRDEDRLREERAHALKT
KEKLAQTATASSAAVSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG
GKEESSLMDLADVFTAPAPAPTTDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTASGDPWRPAA
PAGPSVDPWGGTPAPAAGEGPTPDPWGSSDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDE
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVRGSLAEAVGSPPPAATPTPTPTPTRKTPESFL
GPNAALVDLDSLVRPGPTPPGAKASNFFLPGGGPATGPSVTNPFQAPPATLTLNQLRLSPVPPVPGAPPTYIS
PLGGGPGLPPMMPPGPPAPNTNPFLL

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FIGURE 5619

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCTCAGCATGTCGGACTTCGACGAGTTCGAGCGGCAGCTCAA
CGAGAATAAACAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCAAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGGCAACATCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTCTTCAACGCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCTGGCAACCCAGTGTT
GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTGGAGTTCCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCTTG
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCACAAGCTGTT
CATCGGGGGCTTACCCAACCTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCCTGTGCCTCATGAACATGGTGCTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTACTGCCAGAAAGCCATGCAGGGCCTGACGGGCCGCAAGTTCGCCAACAGAGTGGTTGTCACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGTTAGAGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGGTTGGGGGGTTGGGGGGTT
AGGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCCCACACAGACAACACGCACG

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FIGURE 5620

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSDRKRRSRSDRRNRDQRSASDRRRRSKPLTRGAKEEHGG
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTDGLAVTPTPVPVVGSMTRQARR
LYVGNIPFGITEEAMMDFFNAQMRLLGGLTQAPGNPVLAVQINQDKNFAFLEFRSVDETTQAMAFDGIIFQGQSLK
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVTDAQIAGLNGMQLGDKKLLVQRASVGAKNATLVSPSTINQTPVTLQVPGLMSSQVQMGGHPT
EVLCLMNMVLPHEELDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT
GRKFANRVVVTKYCDPDSYHRRDFW

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FIGURE 5621

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCGGTAGTGGGGAGAGGTGACTA
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGAATTGGGTAGTGGGGCTC
TGGGGAGGTACCTAGAGAGGAAGTGAGGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG
GACGGAGGGCCAGGAGGCCGATACGGGGCCGGTGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGCCGGTCAGGAGGCCCGGGGICTA
AGATGTAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTGAGAGGAGAAAAGGAAGAAAAG
TCGGGGGACTACGTCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCAAGT
TTTTATTTTGTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTCCATTTT
AGGAAACTTTTCTAAAGGAAGTGCAATTTTAACTAATCTCCCTCCGCCGCTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT
CCCCCTTTCCCCAAGGCGGAAGGCCCTCTCTCACTCTCTCTCGGCGGCGGGGCCCCGACCCCCGCGGCTGGGC
CGCCACCTCTCATCGACGCAATGGGGTCCCTACACATACAGGTGCAGCTGGAGGAGGAGCCCCGGGGCCCCG
CCCCAGCGCGAGGCGCCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCCGTGCTTT
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGACTCGGACCTCAAGCCCTTCACGTGCGGCGCTGCGGC
AAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGCGATCGCGCCACGCACCGCGCCCGCGCCGGGCCGCGCACACC
TGCCCGCTCTGCCCACGCCGCTTCCAGGACGCCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTTAAGCTCGAGAC
CCGGCCTGTGCTGCCCTGCCGCTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACC
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCTTCT
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCTGTTGCCCTCCCTGGGCTGGGAACCAAGTCGGAAGT
GGTTCCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTCTG
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTTCAATTTCTGTATC
TACCCCTTCCGCCACGCCCCGACCCCTTGTCAATAAACATTCCGCACTCCAAAAA

A

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FIGURE 5622

MLLLPPRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPPRLGRHLLIDANGVPYTYTVQLEEEPRG
PPQREAPPGEFGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPH
TCPLCPRRFQDAAELAQHVR LH

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FIGURE 5623

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGGCCCCCAGCCACCTGTCA GTGCGGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAACCGCGTGGCCCTCCATGCCTTGACACGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCCTGGCTG
TGGCGCCGTGAAGCTGGGCCTGCGGGCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG
TGGCCGTGCGGGCTCCGGTGACGTGTGTGGGGTCTGGCTCTGGCCCTGGCACAATGCAGGGGACGGGGCCC
GGGTCACCCGCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCCGGCTCGGGCCTGGGCTGGGGGCATGGGGGAGCCCCGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTCAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTGAGCT
TCTCAGAGTGGGAATGACTCCTTTTCCTTCCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGCGACTCCGCCTCCCTG
GGACCTGGATTGGGTGAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCCTCCAGATCCGCTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

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FIGURE 5624

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA
AVKLGLRARWGS LPPPGLG GPWVAVRGSDVCGVLALAPGTNAGDGARVTRL SVSRWHRRRGVGRRLLAFAEAR
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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FIGURE 5625

CGGCGGCGGCGACAGGACCGAGGGGCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTTCGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTTCGCATCATGGCAAAGACTTGGTGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTACC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTCAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAAGCAGAGGCCGAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTTGAGTGCCCCTGCCACTCCGAGATAACCAG
TGGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5626

MDLLFGRRKTPEELLRQNQRALNRAMRELDREERQKLETQEKKIADIKKMAKQGQMDAVRIMAKDLVRTRYVRK
FVLMRANIQAVSLKIQTLKSNNMAQAMKGVTKAMGTMRQLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA
MGDEEDEESDAVVSQVLDELGLSLTDELSNLPSTGGSLSVAAGGKAEAAASALADADADLEERLKNLRRD

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FIGURE 5627

GGCGCGGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGC GG GTTTCGGCGGGCGGCTGAGGAAGAAGCGC
GGGCGGCGCCITTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGGCGGGCAGCGG
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCTCGCGGGCGGGCGGGCGGCAGCGGCCAGCAGTTGGCGGGCAGCGCG
TCTGCGCCTGCGGGCGGGCCCCGCGCCCCCTCTCCCCCCTGGGCGCCCCCGGGCGGCGTGTGAATGCGGGCCTC
CGCGGGCGGAGCCTCGGCAGCAGCGGCCTCGGCCGCTCTGGCAGCCCCGGGCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAGCGCTCCACCGCCCCCTCGGCCGAGCCTCGGCCTCTGCCTCAGCCGCGGCGTCTGTCGCCCGGGGGG
CGGCGCGGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCTGCGACCCGAGAGGGAGCCCCG
CCTGCTGCCCTGTTTGCACCTCGGCCTGTAGTGCTGCTTAGGGCCCCGCGGCCCGCGGCCCAACAGCTCGGG
GGACGGCGGGGGCGGGCGGGCGACGGCACCGTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGGAGAATTATTTTCATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCAGGATGCGAACCAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCGAGCGGGTGAAGTACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACTG
CCGAGACTGCCAGCTCAATGCCACAAGGACCACCAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCAGCAAGGAGGTTTCGAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGGCGGTGTGCTGGTCAATGATGCCAGAGGTGACTGAGGGGCAGCAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGCTTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCAGTGGGACCTCAATGCCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCCTAAGTCAACAGGCGCTGCACCCATGGCCCCCTCCAAGAGCCCC
AGGGCCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTCAGG
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTGAGGTGTGAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG
CGGCCTTATCGCAAGGTGCCACGAGTGAGCCTTGAACGCCTGGACCTGGACCTCACAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCCAGGCAGTACCCTGAGGACTACAACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGGCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCTACTGCCACTGAGGGCCCTGAGACCAACCTGTGCTTAT
GGCTCTTGCAGAGGGTCTCTGGTGTGAGGGTCCCCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCTCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCGGGAACCCCTGGATGACAGTGCCACCATTGCGG
TGCTGTCCAGAAGCCAGGCGATCTGGTTATGTGCAACAGTGTGAGTTTTGTTTCCACCTGGACTGTACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCCCTGCCGCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACCAGCCCGGTGGCACCCCTGGATCTGACCTGATCCGTGCGCCGCTCCAGGAGAAGTTGTACCTCC
CTACAGCTCCCCACAGGAGTTTGGCCAGGATGTGGGCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCCGATGAGCCTGCCTGGTGTGCTGGCCTGAGTTCCAGGAGCTGTCTGG
TGGCCCTGGTGTATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCAGCCTGGCTCTGTTCTCTGTCTGTCTCACC
CCATCCCCACTCCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCAGTTCTCAGCATATGGTTTTT
TACTTCTGTGGATTAAATAAAAACTTACCAGTTAAAAA

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FIGURE 5628

MAASAAAASAAAASAAAGSPGPGEGSAGGEKRSTAPSAAASASASAAAASSPAGGGAEAELELLEHCGVCRELRPE
REPRLLPCLHSACSACLGPAAPAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDAN
QCCTSCEDNAPATSYCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD
TLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVMAIL
QIMKELNKRGRVLVNDQKVTEGQQRERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRA
LKMIVDPVEPHGEMKFQWDLNATKSAAEAFGKIVAERP GTNSTGPAPMAPPRAPGPLSKQSGSSQPMEVQEGYG
FGSGDDPYSSAEPHVSGVKRSRSGEGEVSGLMRKVPRVSLERLDLDTADSQPPVFKVFPGSTTEDYNLIVIERG
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETAAIGAPPTATEGPETKPVLMAEAGPGAEGPRLASPSGSTS
SGLEVVAPEGTSAPGGGPGTLDDSATICRVCKPGDLVMCNQCEFCFHLDCCHLPALQDVPGEWSSCSLCHVLPDL
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK
LSPPYSSPQEFAQDVGRMFKQFNKLTEDKADVQSIIGLQRFFETRMNEAFGDTKFSAVLVEPPPMSPGAGLSSQ
ELSGGPGDGP

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FIGURE 5629

ATTTATTATTGTTCTGGTCACTGTCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAGATGGCAGCCTCTTTC
TTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTC
AAGCAAATGACTTTGCAGCTTGAACCTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGGAAGAAGCTT
GCAAACCTCTTGATCAAGCACTATGAAGAACAACAAGCTTGGAAACATAACCTTAAGAATCTTTCAAAAGATGGAT
AGAAAGGATCTCTGCATGAAGGTCATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCACGCAAAGCAG
AAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA
GAATGTGACCATTGAGCCGCTTTTGTCTCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGA
CCACAAGGAATTGGAAAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTCGGACAACAAGATCTTTCTGGGAT
AGGTTCTGTACACGTTCTATTCTGTCTGCAGAGAACTGAGGGAGTTGCCGCCAACGAGTTTGGCTGACTTGATT
TCCAGAGAGTGGCCTGACCCGCTGCTCTATAACAGAGATCGTGTCTCAACCGGAGAGACTCTTGTTCGTCATC
GACAGCTTCGAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTCCGATCTGTGTGGTGAAGTGAAGGAGAAACGG
CCGGTGCAGGTGCTTCTGAGCAGTTTGTGAGGAAGAAGATGCTCCCGGAGGCCCTCCCTGCTCATCGCTATCAAA
CCCCTGTGCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGT
GATAGTTAGTGATTTTCTGTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA
AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGTCTGGATCCTGTGTACCAGTCTGAAGCAAGAGATG
CAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTTCGCTCTTAACTGTTT
ACACCTGAGGGTGCCGAGGGCCGACTCCGCAAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAG
GGTATGTGGACAGACACATTTGAGTTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCT
GCGCTGTCTGGGCACCAAGATACTTCTGAAGTACGGGGAGCGTGAGAGCTCCTACGTGTTTCTCCAGCTGTGTATC
CAGGAGTTCTGTGCCGCTTGTCTATTGTCTCAAGAGCCACCTTGATCATCCTCACCCAGCTGTGAGATGTGTA
CAGGAATTGCTAGTTGCCAATTTGAAAAAGCAAGGAGAGCACATTGGATTTTTTTGGGGTGTTTTCTAACTGGC
CTTTTAAATAAAAAGGAACAAGAAAACTGGATGCGTTTTTTGGCTTCCAACCTGTCCCAAGAGATAAAGCAGCAA
ATTCACCAGTGCTGAAGAGCTTAGGGGAGCGTGGAATCCTCAGGGACAGGTGGATTCTTGGCGATATTTTAC
TGCTCTTTTGAATGCAGGATCCTGCCTTTGTGAAGCAGGCAGTGAACCTCCTCCAAGAAGCTAATTTTCATATT
ATTGACAACCTGGACTTGGTGGTTTTCTGCCTACTGCTTAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC
GTTCAAAATGCTTTAAGAAAGAGGATGAACACAGCTCTACGTCGGATTACAGCCTCATCTGTTGGCATCACATC
TGCTCTGTGCTCACCACCAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCTCAGCGAGTCGACCTTT
GTGACCTGGTGTAACCAGCTGAGGCATCCAGCTGTGCGCTTCAGAAGCTTGGAATAAATAACGTTTCTTTTCT
GGCCAGAGTGTTCTGCTCTTTGAGGTGCTCTTTATCAGCCAGACTTGAAATACCTGAGCTTCACCTCAGGAAA
CTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAACCTACCCAGCAGGCAACGTCAAAGAGCTAGCGCTG
GTAAATTGTACCTCTCACCCATTGATTGTGAAGTCCTTGCTGGCCTTCTAACCACAACAAGAAGCTGACGTAT
CTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCAGACACGGTC
CTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGT
AACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC
TTGAAACATCCGGACTGCTGCTGGATTCACTGTGTTTGGTAAATGTTTTATCACTGCTGCTGGCTGTGAAGAC
CTCGCCTCTGCTCTCATCAGCAATCAAAACCTGAAGATTCTGCAAATTGGGTGCAATGAAATCGGAGATGTGGGT
GTGACGCTGTTGTGTCGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTGGAAGAATGTGGGTTA
ACGAGCACCTGCTGTAAGGATCTCGCGTCTGTTCTACCTGCAGTAAGACCTGCAGCAGCTCAACCTGACCTTG
AACACCTTGGAACACACAGGGGTGGTTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTC
GGGCTGAGAAAACTGATTTTGTGAGGAAACCCAGGCACTTCTGACGGCTGAGGAAGAGAGAAATCCTAACCTG
ACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATCTGATTGCGAGGAACCTGGGCTCTGACTCGAACA
CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA
GTTGTGAGATTTCTGGCACCCATTCTAGATTTGATATGATACAGTGGTTTTTATGTGCTCTGTGGCCTTGGA
TGAGTCACTGAAAGGCCTTCATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTACATTTT
TAAACATTGG

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FIGURE 5630

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI
FQKMDRKDLCKVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEEVKQEECDHLDRLFAPKEAGKQPR
VIIQGPQGIGKTTLLMKLMAWSDNKIFRDRFLYTFYFCCRELRELPTSLADLISREWPDPAAPITEIVSQPER
LLFVIDSFEELQGGGLNEPDSDLGDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPELRDQVTISEIYQPR
GFNESDRLVYFCCFFKDPKRAEAFNLVRESEQLFSICQIPLLWILCTSLKQEMQKGKDLALTCQSTTSVYSSF
VFNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWTDTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF
LHVCIQEFCAALFYLLKSHLDHPPAVRCVQELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQ
EIKQQIHQCLKSLGERGNPQGQVDSLAFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGHLRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN
NVSFSGQSVLLFEVLFYQPDLYLSFTLTKLSRDDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLAGLLTNN
KKLTYLNVSCNQLDTGVPLLCEALCSPDTVLVYLMLAFCHLSEQCEYISEMLLRNKSRYLDLSANVLKDEGLK
TLCEALKHPDCCLDLCLVKCFITAAGCEDLASALISNQLKILQIGCNEIGDVGVLQVLLCRALHTDCRLEILGL
EECGLTSTCCKDLASVLTCSKTLQQLNLTLNTLDHTGVVVLCEALRHPECALQVLGLRKTDFDEETQALLTAEFE
RNPNLITDDCDTITRVEI

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FIGURE 5631

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGCGAAGGCGTGGC
GGGAGTGTGCGGCGCCGGACCCGGGAAGCTGGCCTGGGCGCCGGGTCTCGAGTGCAGGCCTTTGTTCTGAAGTGT
CCAGGCCGGCCTTGCGGCGTCGGGACTGAGGAATGGAGCCCGTCGCGGGCGGGGCGGGAAAGGAAGGTTCAAGT
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTCAGGTGCTAGATGCGGCG
TGCAGAGGCTGTGCATCACATACACTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCTGTAAGCTTCGCTGCGTGCCACCGCTGCGTGCTGGCGGC
CGGCTCACCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA
GACAGTGCACAGCTGGTAGAGTTCTGTACAGCGGTTCTGCTCGTTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT
CACGGCCGCGTCAGTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC
GGGCACCTCTGCGCCACGCCCTGCCACCCCTGTGCCCCGCCACTCGCACCTGCGCAGCTGCGTACCCGCT
GCGCCACCTGCTGGCTGCACGTCCCCGGGGCACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGG
TTTGCAGCTGCCAGCGCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGCCCC
TGATGACCGAGGTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGCCC
AGGCGAGGGCCAGGCACCTCCTTCTTCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCGTG
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTCTTCGGGGAGCTGGGTC
AGCTGAGGACGTATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC
CACTGAGACCCCTGTCCAGCCGACTGCATACTGTCTGGATCCCGCCCGCTGGTGTGAAGACCCCAAGGCGGCC
CGTTGCACTCTTCCCCCTTCACTTGGGTGCCCTGGGCCACCCGCACCCCTTCAGCACCATCGGGGCCAGC
CCCTGCGCCCCACCCGCTTCTACCCACACTCCAGCCCGAGGCAGCCCCCAGTACTCAGCTGGGGGAGGTCCC
GGCTCCCTCTGCTGCTCCACACGGCCCCCTCAGGCACCCCTGCTCGCACCCAGGTGCTGAGCCACCTACGTA
TGAGTGCAGCCACTGTGCAAGACGTTAGCTCCCGGAAAACTACACCAAGCACATGTTTCATCCACTCGGGGGA
GAAGCCGCACCAGTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTCACGCA
CACCGCGCTGCGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTCACGCAGAAGAGCTCGCTCAACGTGCACAT
GCGCACTCACCGCCCCGAGCGCGCGCCCTGCCCGCCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG
CCACCTGGCGGCGCACCTGCGCCCTGATGGCGCTGGGGCCTGGCTCGCCACGGTGGATCCGGGGCCTCCCGC
ACAGTCGGCCACGCCCGCTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCCCTCT
CTCTCCCTTACCCCTTCTCCATACCAGGGCCTAAGTCCGCTTACTCCTCTCCTCCATGTACTTGAACCTCCA
GGTGGTGCCGGGCTGGGGCTGGGCTGGTTAGACCACCTTCTGAGAACTGGACTATTTCTGCGTAAACCGGGCGC
TCAGGCGCTTGGACCCGGGCCAAGATTTGACTCCGTTCTCACCCGCCCTCTCCTGGGGTGGTGGTGGGGCTG
GGGGCGCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG
GGGCGCTAAGGAGACTCAAGTGACCCATCATATATGGGGGCTGGGCTCGGGACTCTCGCTCTAATAAAGGAC
TGTAGGCCATGGGGCTAAACCACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5632

MAAAEAVHHIHLQNF SRSLLET L NGQRLGGHFC DVTVR IREASLRAHRCVLAAGSPFFQDKLLLG HSEIRVPPVV
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLRIQTVIDECTQIIARARAPGTSAPTPLPTPVPPPLAPAQLR
HRLRHLLAARPPGHFGAAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGEDEDEESDDETDGEDGEG
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDDEDGAVPE
GCPTETPVQPD CILSGSRPPGVKTPGPPVALFFH LGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG
EVPAPSAAPT TAPSGTPARTPGAEPPTYEC SHCRKTFSSRKNYTKHMF IHSGEKPHQCAVCWRSFSLRDYLLKHM
VHTGVR AFQCAVCAKRFTQKSSLNVHMRTHRPERAPCPACGKVF SHRALLERHLAAHPAP

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FIGURE 5633

GGCGGCGCGTGGTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGGATGACCGAGTGGGAGACAGCAG
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA
TTTCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG
CCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATACCTGCTCACAGGCGAGAACC
CTCTGCAGGTCTTGGTGAACGCCATCATCAACAGTGGTCCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCTCGATTTTCCC
AGCTGTGCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAA

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FIGURE 5634

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNS
MMMHGRNNGKKLMTVRIVKHAFETIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPLRRVNQA
IWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

6102/6881
FIGURE 5635

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT
AAATAAATAAAAAATAAAAAATAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA
GTGCCACCCAGATAGCCTCACAAAACCTTGACCCAGCCACTGTTAGTGTCGCCACCGCCCATAAAGGAGCTGAGC
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGCCTGGTG
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCCCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCTGCTAGGACAACCTAACATTGATAGCCCTTTGA
ACACACATGCTACCAAGCTCTGGGAAAACCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC
AAACATGGAGAAATGTCATCCCTATTTAAAAAATAAAAAATTAGCCAAG

6103/6881
FIGURE 5636

GACTCAGGTGAACTAACCTGCGAGAAGCTGGETTGTGCGCTGAGGCGACACAGCGCCGGAAGGCACGGTGGCGACTC
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCGGGCCCCCTTCCTCGG
TCATTGTCTCCCCCTCCAGCTCTACTCACAGGCTCCGATGGCGGCGCCGCCCTGAGGGACCCCGCTCAGGTTCCCT
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCAG
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACCTTACACTTCTG
GCCTCTCTCGGACTTGCATCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCTTAAAA
AGACAACAGGGCAGGGTCCAGTTTTGAGGAGTTGCAAAGTTTACCTATCAGAGAAGTCTTGCAAAGCAGGGAG
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTTCAAGCACCAGGTGACTCACACAGGAGAGAAGTCACATAGG
AGCTCCAAAAGTAGGGAGGCCCTTCATGCTGGAAAAGGCATTACAAATGCAGTGAATGTGGGAAAGCCTTTGGT
CAGAAATATTTACTTGTTCAGCACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG
TTATTTAGAGATATGTCCAACCTTTTATACACCAATAGTTTCACTGGAGAAAGGCCCTTACGGGTGTAGTAAC
TGTGAAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTTCACTGGAGAAAAGCCTTTTACA
TGCAGTGAATGTGGAAAAGCCTTCAGGCATAATTCCACACTTGTTCAGCATCACAAAATCCCACTGGAGTAAGG
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTTCACT
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT
GTTCACTACTGGAGAAAGGCCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA
CATCAAAAAGTTCACTGGAGAAAAGCCTTTTAAAGTGAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC
CTAGTTAGACATCAGAGGGTTCACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA
AGCTCAACCTCATGCAACATCGAAAAGTTCACTTGGAGAAAAGCCTTTTAAAGTGAATGAATGTGGGAGATTG
TTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTCACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT
GGGAAGTTTTTTCGCCACAACCTCCAGTCTTTTTTAAACATCGAAGGATTCACACTGGAGAAATGCAGTGAATTGTGT
GAAATCCTTTAGCCAGCGTTTTCAACCTCATTCAACACCAGAAAGTTTCACTGGAAAAAATCTTGAAGGTAACAG
ATGGAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT
GGAAAAAGGTTTCAGCCAAAGGCCCTAACCTATTCAACACCAGAAAGTTTAGAATGGAGAAAGGCCCTTAGGGTGA
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAACAGAACTCTGAGGATGGCCTTTATGAGGGAG
CTGGCAATTGAACATCATTCTAAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCCTTCT
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGGCTGTACCCGTCGAATGGAGT
TTTGATCTCGCTGAGTTTGGAGTTGGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGCTGTT
TTGTGAATGTTAGATCTTCTTTAATAAATATTTATTTCCCATACCCCTTATGACCATTAAAAAAAAAAAAAAAA
AA

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FIGURE 5637

MAAAALRDPAQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLLDDAQRLLYRNVMLNFTLLASLGLASSKTHE
ITQLESWEEFFMPAWEVVTSAIPRGCVHGAEAEAEPEQIASVGLLSSNIQQHQKQHCGEKPLKRQQGRVPVLRSC
KVHLSEKSLQSREVGKALLISSGVLKHQVTHTEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLVLVQHQR LH
AGKKTYECSECGKLF RDMSNLF IHQIVHTGERPYGCSNCGKSFSRNAHLIEHQRVHTGEKPFTCSECGKA FRHNS
TLVQH HKIHTGVRPYECSECGKLF SFNSSLMKHQ RVHTGERPYKCSECGKFYSHKSNLIKHW RVHTGERPYKCD
CGKFFTQCSSLMQHQKVHTGEKPFKNECGRFFRENSTLVRHQ RVHTGAKPYECRECGKFFSQSSTLMQHRKVHI
GEKPFKNECGRLFRENSSLVKHQ RVHTGAKPYECRECGKFFRHNSSLFKHRR IHTGEMQ

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FIGURE 5638

GTGCGATCCCGGGCCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGCATCACCCGGACCGGGGGATTAG
CTCCGGTTTGCATCACCCGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG
CGTCCGCTGCTAGGACCCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATGCGA
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCAGACTGCCCCCTGCCTGTTGCCCTGAGCCCA
CCTACTGCTCCAGATCGTGCAACTGCTGTGGCCACTGCCTCCCGTCTTGGGCCCTATGTCCTCCTGGAGCCCGAG
GAGGGCGGGCGGGCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG
GAAGCCCCGGCCGTGCTGGAGCCCTATGCGCGGCTGCCCCGCAACAAGCATGTGGCTCGGCCCACTGAGGTCTCTG
GCTGGTACCCAGCTCCTCTACGCCTTTTTCACTCGGACCCATGGGGACATGCACAGCCTGGTGCGAAGCCGCCAC
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTACCAGCACGGT
CTGGTCTCGGTGATCTCAAGCTGTGTGCTTTGTCTTCGTGACCGTGAGAGGAAGAAGCTGGTGCTGGAGAAC
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCCTGTGGGACAAGCACGCGTGCCAGCCCTACGTGGGA
CCTGAGATACTCAGCTCACGGGCCCTCATCTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGCGCTCTTC
ACCATGCTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCCGGGGGCC
TACGCCTTGCTGCAGGCCCTCTCGGGCCCTGCCCGCTGTCTGGTTGCTGCTCCTTCGTCGGGAGCCAGCTGAA
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC
CATCTCTGGGAGGCTGCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA
GAAGIGGTTCTGTATGGCTAGGACCACCCTACTACACGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT
CCAAGCCTTCTCCTGCCTCTGAACTGAGCCAAACCTTCAGTGCCCTTCCAGAAGGGAGAAAGGCAGAACCTGTGT
GGAGTGTGCTGTGTACACATCTGCTTTGTTCACACACATGCAGTTTCTGCTTGGGTGCTTATCAGGTGCCAAGC
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAAGGAGACAATATTCCTGCTCACAGAGATGACAACTGGC
ATCCTTGAGCTGACAACACTTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCAGTGTCCGC
CTCCACTGATGCTGGTGCTCAGGCACCTCTGTCCAAGGACAATCCCTTTACAAACAAACCAGCTGCCTTTGTAT
CTTGTACCTTTTTCAGAGAAAGGGAGGTATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCCTGCAACTCAGGACCCA
AGCCCAGCTCACTCTGGGAACTGTGTTCCAGCATCTCTGTCTCTTGATTAAGAGATTCTCCTTCCAGGCCTAA
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGCTAACTCAAGACTGTTCTGGAAT
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG
TCCTGTGGCCACCTGGAAAGTCCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCCAGGTCCATACT
CTAGGTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA
AAAAAA

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FIGURE 5639

MRATPLAAPAGSLSRKKRLELDDNLDTERPVQKRARSGPQRLPPCLLPLSPPTAPDRATAVATASRLGPYVLE
PEEGGRAYQALHCPTGTEYTCVKVPVQEAPAVLEPYARLPPHKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS
RHRIPEPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSCVLTGPDDSLWDKHACPAY
VGPEILSSRASYSKGAADVWSLGVLF'TMLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP
AERLTATGILLHPWLRQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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FIGURE 5640

GGGAGTCCGGGGACCCGCGATCAGCCCCGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCGCCGCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTTCGG
CCCCCCTCCAGTCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTCCGCCGAAGCCGCTCCCTTGC
GAAGAACTGGGGCTCCCGGAGGAGAGAGGGCTTTGCCTTGAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGTCTCCGGGACTTGGAAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTCCCGCTTCTTCCACCTCGGC
TGGTCCGTTTCTCTCTGCGCCAGTGCAGGACTGTCTCGGCGCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCTGGTTCACCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGAGGCCACACGGCCTGGCTGAGTTGCTCTGGTCTCCCGCTCTCCAGGCGACCCGGAGGTAGCATTTTC
CCAGGAGGCACGGTCCCCCAGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGCCCCGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCACCATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGTTTTTCTGGACTATGGCTTCCACCACTCTTGAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGGTGCAGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTACGCCCCGAA
CACCTCCCTCAACCCTCAGGAGCTGCAGCGGGAGCGGCAGTGCGGATGCTGGAAGATCTGGGCTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGTCCCCAGGAACCCGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCTCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGCGCGCCCCGAGGCCTACCAGGTCCCGCCTCATACCAGCCGACGAGGA
GGAGCGAGCGCGCTGGCGGGCGAGGAGGCGCTGCGTCACTACCAGCAGCGAAGCAGCAGCAGCAGGAGGG
GAACTACCTGCAGCACGTCCAGCTGGACCAGAGGAGCCTGGTGTGAACACGGAGCCCCGCGAGTGCCCCGTGTG
CTACTCGGTGCTGGCGCCCGGCGAGGCCGTGGTGTGCTGCGTGAAGTGTCTGCACACCTTCTGCAGGGAGTGCCTGCA
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGTGGGGCAA
GCTGTGGAGAGGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTCTAGACCTGGGCATCTCCAT
TGCTGAAAACCGCAGTGCCTTACGTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGA
TGTC AATGAGTTACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAA
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT
GAAGGTGATGCTGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTGAGAACTGCCA
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGC
TTCTGTGGACGGCCTTGCTTGTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTACATCTGCC
CCAGTGCTTTGTCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCCACCTCTGCCTGACCC
CAGCCTTAAACATAGCCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCACCAC
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCCCTCAGCTGTGAGCTTTCTGGGGCTAACTTCTC
TGCCTTTGTGGTTGGAGGCCTGAGGCCTCTTGGAACTCTTGCTAACCTGTTTCAAGGCCAGGAAGGAGACTGCACA
GTTTTGAAAGCACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAA
ATGGTTTTCCGGGAA

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FIGURE 5641

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQRKQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRECLHTFCRECLQ
GTIRNSQEAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFDLGISIAENRSAFSYHCKTPDCKGWCFFEDD
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC
DWIRCTVCHTEICWVTKGPRWGPGGPGDTSGGCRVRNGIPCHPSCQNH

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FIGURE 5642

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCTTGC
GAAGAAGTGGGGCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTCCCGCTTCTTCCCACTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGGGACCTGTCTCGGCGCCGCTGCCCTCTCACCGCCCCACGAGGATC
CCGGCCTGGTACCGGGCAGTGTGATGCTTCCGACTGCCGCGGGGACAGCGAGGCACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCTCTCCAGGCGACCCGGAGGTAGCATTTT
CCAGGAGGCACGGTCCCCCAGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCTGAGGTCTCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCAACAGTCTTGCAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGGTGGCGGAGAAATGGGGACAGTGCCTACCTCTATCTGTGTGACCCCGCAA
CACCTCCCTCAACCCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCCGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTTGGAGCCAGGCCCCCAAAGCCCGGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGTGGCAGTGGCCCGGGTGCACCTTCATCAACAAGCCCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCAGGCGCTACCAGGTCCCCGCCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCTGGCGGGCAGGAGGAGGCGCTGCGTCACTACCAGCAGGGAGTGCCTGCAGGGCACCATCC
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGTCTGGGCAAGCTGCTGGAGA
GGGAGATCAAGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCATTGCTGAAAACC
GCAGTGCCTTCAGCTACCATTCGAAGACCCAGATTGCAAGGGATGGTGTCTTTTGAGGATGATGTCAATGAGT
TCACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCTGAAGGTGATGC
TGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCCCACGCTGGGGCCCTGGGGGCCAGGAGACA
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGGCCACCCAAGCTGTCAGAACTGCCACTGAGCTAAAG
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGCTTCGTGGACGG
CCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT
GTCTTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCCTGCGGCTCCACCTCTGCCTGACCCAGCCTTAAAC
ATAGCCCCCTGGCCAGAGGCCTTGTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCCAACCAACACTCATCT
GTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCACTGTGAGCTTTCTGGGGCTAACTTCTCTGCCTTTGTGG
TTGGAGGCCTGAGGCCTCTTGGAATCTTGCTAACCTGTTAGAGCCAGGAAGGAGACTGCACAGTTTTGAAAGC
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAATGGTTTTCCG
GGAA

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FIGURE 5643

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPFVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQGVFAGHHPQQPGGGGLPLH

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FIGURE 5644

GACGATGGGGCTGCGTGCAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTCGGGGGGCGCCCGAGGGGCCCGGGCC
GAGCGGCGGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCT
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCAGA
CAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGCCAGGGAGGTGACTACTTCTACTCTTTGGGGGCTG
CCACCGCTACGCGGCCTACCAGCACTGCAGCGAGAGACCATCCCGCCAAGCTTGTCAGTCCACTCTCTCAGA
CCTAAGGGTGTTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTGCAC
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC
CCCAGTTCCACCTCTGTGACAAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATCCCAAGGACAAGGATCCCTCTGCATTTTGTCTATGTAACCT
CTTATATGGACTACATTAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTCACG
TCTTGGATCCTTTTGCCTTAATCTCAGTGCTCGTTACTTTCATGGTCCCAAGATGGCTGCTGTATCCCAAGAATC
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAACTAGCTGGACCCGTCACCTTCTATCAGA
AAGTAAAACCTCGTCAGAAGTCTGTTTCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCGAG
CCAGCTACCATTGCACCTCTAGCTGCAACAAAGCTAAGACAGCAGGGAACAGAATTGTCATGGCTGAATAGACC
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCCATACCAAGAGAGAAAT
GCAGAATTGTGTACCAGTTAGCTTTTGTCTGTGTAACAAACCATCCCCAACTTGGCAGCTAGAAACAAACCTGT
ATTTTCCCAATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC
CCTCATGGAGCTAAGGTACAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGCCCTGGC
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAACCT
GGGACTAGGACAGTGTCACCTCTGCTAAGTTCTTTTGGTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCACAAAGAGCTTGTGGCCATTTTTCACCTATCACAAATAA
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTTCTCTCTGTCTCATGGGGCCTCACTCT
GCCAAGTTGGAAGGCACCTAAGACATTGTCTTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCCCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTCTCA
CTGCCCTCTAAGGGAACCTGGTCACTCGGCACCTTTTAAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC
TTTTCCCATGCATTCTCTTTCCCGGGAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGGAAACAAAACAGGACATTAGTGGGAAAATTGGAAATCTGAAA
AAAGTCTGAATTTTAGTTAATATACCAATTCAGTCTCTTGGTTTGGACAGATGTACCATGGTGTGTAAGATGT
TGACCTTGGGGTAGGCTGGGTGAAGGTATACAGGAACCTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG
TATCATTCCAAAATAAAAGTTTATTTAATTT

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FIGURE 5645

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDGWLMLVQQLHEGRG
HVLDPFALISVLVTSWSQDGCCIPKNHVCVQGRRGGGRAGLAGPVTIFYQKVKPRQKSVSCSLPLHIFT

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FIGURE 5646

GTCTGAGCGCGCTCGGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCCAGCTGCCTACT
TTCTGCCCCGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC
CTGTGCACACGCTGAGCCCCGGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCTGCGGACCAGGGTCCCTGGCT
ACCTGCTACGGGGGCGCGCAGATGGTGGAGCCCGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCTGCTGTCCAACAGCCGCTCT
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCTGCCGAGGCCAGCCGCACTC
CTGGACGGGCGGAGGGAGCCGGCCGTCTCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC
GCCGGGTGGACGTCCGCCCCCTGCCCGCTCGCCTGCCCGGCCCTGCCCATCACCGGCCCTGCCGCCGCTCCA
GCCCAGCCCGGCCCGGGTTTGAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTCTAGGGCAGCCGCTGATC
TCGAGCGCTTTTTTAACCTTCTGCGGCCCTGGACCCGGAGGAGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG
CCAGCTCGGATATCGTGTCCCTGGCAGGGCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGTCCCGCCGCA
GCTCGGTGACTGTTGAGGAGCGGGCCCGGAGCGCTTCCCTATGGCGTGTGCGTGGTGGAGCGCAATGCCCGCG
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG
AATTGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGCAATCCATTCTCTAGACGGCCGT
GTCAGAGGCTCCACCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG
GACTGACTCTCCAAGGGTTTTGTTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCCTCCCCAATACAAGGT
TTTTGACATGAGTGACTCCTGCTTAGTTCTCTGTGGGGCTGCATTTGCGGTGCTTTGCCCTCCCCACTGTGA
GTGAGGGGCCAAGGGATCTCCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCTCCTTCCCTTCCCTTGGCCTCTGTC
CTTTGCTGACTTCTCTTCCCTTACCCAGCAGAACTACCCCTGGGGTGGGGCAGTGGGGAGGGGCCATCCACTG
CTCTTCTAGTCCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGGACTGGTTAGGAGTCTGCATTGCTTTG
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTTC

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FIGURE 5647

GCAAGAACCAGCGCAAGAGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCCGC
CCCCCTTTCTTCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTTCGCATCGGCAGCGC
CGGCCATCACCTGCAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT
TGGGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAAG
ACCTGTATGTCCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTGAAAGCCATCACCGTGGAGAGCA
GCATGATCCTCAATGTGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACCTGGATGATTATATCG
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGGAGTTCCCCCTGCTACCG
CCAGAGAGGTGGACCCACTCCGATTCTCCACACCACCCACACACCAGTCGGCAGCCTCCCTGGTGTGATCCCC
TGGGCCCGTTTGTGTGCGGGGAGAAGACTTAGACCTTTTGGGCCTCGGAGAGGTGGCATGATTGTGGATCCCC
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCTTCTCAGGCCTCCCGAACCAGACTTCCCTCAGGCGCTGTGC
CCCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCACCCGGACCTAACCCAGACCATCTCCCCC
CGCCGGGCTACGATGACATGTACCTGTGAAGCCTCAAGAATGTAACATCCAGGCTTCCCTCCATTCTCTCTGGA
GCTGCCACCGCTGTCCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGCAAGGGATTCTGCTCATGTGTTTGAG
ACCGGCTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG
CTCCCAAAGAGAAATCAGTGTGTCTCTTTACCATCAGCTCCTCCCTTTACCACCAGCTCCTCTCCACTTCCC
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCTCGACCAGATGCAGTGTATAGAACAGAACGCATTTTG
GATGTTATTATTAAGAACCAATGTCAATACAGAATTGATGTTGCCGGTTTCCCACTTTTCTTTTACATTAATG
CATAGCTGCTTCCATTTATGAGACTTTAGAGTTTGAGTTTCTGTAGGGCTGAATGACTCTTTTCTGCCCAGGG
CCCATTCTTGCTTCTCAGGCACCTTCCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCCCTC
TGGCTGCATGAATGGAAATGAGTGAAGTGGAAATCCCATAGGCCACAAGAATGACTTTTACAAGGGCAGGAACATT
GTGGAAAGACTGCATCATTCTGATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTTGTAGGTCCATC
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTGCCAC
TAAGTTAGTGAATGACCCTAAGCAAGTTCTTCTCTCTTAGGGCCTTGTGCCAAGCCTATGAAATTGGAGGTGG
CTTTCCTGCTCTAAAGCATTGTTGATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA
TGATGGTTCAAGGCCATACTTCCCTTGAACCTTGTGTGTTTCTTGCTAACTCTGTGGTTTTTGGACCCCATGGG
GCCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGAACCTTCGGGAGGAGCAGGGAGCCCTGCA
CCTTGTGTCTTGCCCCACCTGACCTTTGGTGTCTCCGGATCCTTTTCAGCCCGAGGCCTGACAGACGCGGGCAG
TGATGAGCCCTGTTCTGGAGTGGAAAGAGCAGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC
ACTTCCGCTCTGCAGCTAGCATTCAACCATAATGTGGATCCTTTTCACTTCTCAGCTCCCTGGATTCTTCCCTTA
AATTAGGACCTATTATTTACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT
GTAGCCTCAGATTGCCATCTGCTTAGCCTGAGAACAGGTAGATGAAAACTAACTGATGCCTAGGCCCAGGGTC
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTAGTCCCAT
GGCAAGCAGTGATTTAGTAAACACCCAGAGTCAGGGAAGCCAACCACTTGAAACCTTTAGAACATCTCTGCT
TTGGAGAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTCATAACCTTTGAGAGATGGCAAATGG
GAGGAGTGTTAGTCTTTGTTTTGGAATTGGACCATCTTGCAACCAAAAGGACTTAGAGCAGTTTGTCTATAAAG
ACATCCTTTATTATAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT
TTTAGGACCTTGATGTGAGGAAAAGATAAAATTTAAACAATAAATTTGCCACTTAGATTTCTAGCAGCAAAGTC
CGAAAAGATAGTTATATACAAAATCTGTTTTCTGAAAACAAAATTTGATTACCTTCAGAATTGGCCATTTTT
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT
AGAGCCTTTAGGAACCTTCTGGTCAAGCTTATGGTGCTATTTTGATCTGGGCCACTTCCCTCCTTCAGTCATG
AGTAATCATCAAGGAGCAAGTTGGAGTGTTTCAGGTGTATATTTGTAGAACCCAAAAGATTGGAGCCTTAACAA
TAAACATCAGCACT

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FIGURE 5648

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCGCCCGTCGCGCC
GCCCCCGCGCTCAGCGTCCGCGCGCCGCCATCGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACGGGATGCTTGAAGATGGAAAGAAATTTGATTCTCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGTCCAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCAACCATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAACCTGGAATGACAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGACATGTGCACATGAGTCCATATGGAGCTT
TTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCACTCAGCTTTGCTTCCG
ACACCTCTGTTTCTCTCTCCCTTTTCTCCTCGTATGTGTGTTTACCTAAACTATATGCCATAAACCTCAAGTTAT
TCATTTTATTTTGTTCATTTTGGGGTGAAGATTCACTTTTCACTCTTTTGGATATAGGTTTCCAATTAAGTACA
TGGTCAAGTATTAACAGCACAAAGTGGTAGGTTAACATTAGAATAGGAATTGGTGTGGGGGGGGGGTTTGCAAGA
ATATTTTATTTTAAATTTTGGATGAAATTTTATCTATTATATATTAAACATTCTTGCTGCTGCGCTGCAAAGC
CATAGCAGATTTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGTCTTTGGGTTAAATTAAG
CCCTACCTAAAACCTGAGGTGGGGATGGGGAGAGCCTTTGCCTCCACCATTCCCACCCACCTCCCTTAAACCT
CTGCCTTTGAAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTCAGGAATTTTGTATC
TCATAACTTTCCAAGCTCCACCACTTCTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCTTAAGAAAATGATGCTGGT
CATCGCAGCTTCAGCATCTCCTGTTTTTGTATGCTTGGCTCCCTCTGCTGATCTCAGTTTCTTGGCTTTTCTCC
CTCAGCCCCCTTCTACCCCTTTGCTGTCTGTGTAGTGATTTGGTGAGAAATCGTTGCTGCACCCCTTCCCCCAGC
ACCATTTATGAGTCTCAAGTTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAA
AAA

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FIGURE 5649

MGVQVETISPGDGRTFFPKRGQTCVVHYTGMLDGGKFDSSRDNRNPKFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

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FIGURE 5650

CGGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCGTCGCGCC
GCCCCGCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTCAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAAC TGAAATGACAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCCTTCACCTGCCTTTGCTCCTCCCATGTTATGCCC
AGCGTTTGATGGGTAGCAGAGAGAAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTTCTGTATTGAG
TATCCTTTTCAGTGTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCTAAGGAAAGGAATTGGCATGTGTA
TGTTCCCAAGTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTTCTATGTAGTTTATAAAATTAAACTGAATT
GAGGACTATGGAAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAATAA

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FIGURE 5651

MGVQVETISPGDGRIFPKRGQTCVVHYTGMLEDGKKFDSSDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

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FIGURE 5652

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCAGCCAAGATGTTTCATGTAGTATTGAAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCGGCCAGCCATGGCTGCCACCAGCTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTTCATCGTGCAGCGGTTAACATTAACC
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTCTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5653

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGEKRQHSSQDVHVVLKLWKSGFSLDNGELRSYQDP SNAQFLESIRRGVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSILIDESEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESQTLEKANLLNAVIVQRLT

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FIGURE 5654

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAAGTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGCCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCCT
CCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGGCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 5655

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVMPQAPAGLAGPVRGVGGPSQQVMTPOGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 5656

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCTCAGTCAACATGTACTTCAGATCTTCTGGGCTTATGT
GCAGAAAATCACTTCCATCCAGGAATTCTAGCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA
AGCTGTTGGTTTGAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCTGGTCTGCAAGGACAGAGGAG
AGAGAAACCTCAAGGGCATTCCCGAGCCACTCCAAAGACAGTCAGCAAGTCCTAGAAAAGGCAACATGGTGGTA
GAAACAGAGCCCAGCTCAGCCCAAAGACCAAACCTGTGCAGCTAGACAAAGGCTTGAAGGAATTAGAAACCTTG
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG
ACCTCTTTAGGGAAGAAGCCCTACATTTGCAGTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCTCATCAGA
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCAGTGAGTGCAGGGCGAGGTTTTAGCCAGAAGTCCAAC
CTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGCAGGGAGTGTGGGCAAAGCTTTAGAAGT
AAGTCCATCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTCAGCGAGTGTGGGCGAGGC
TTTAGCGAGAAGTCATCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCTATGTGTGCCTGGAGTGT
GGACGAAGCTTTGTGATAAGTCAACCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC
AGGGAGTGTGGGCGAGGCTTTAGCCAGAAGTCAGATCTCATCAAACACCAGAGGACACACTTGGATGAGAAGCCT
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCTCATCATACAGAGCGGACGCACTCTGGA
GAGAAGCCTTATGTGTGTGGTGAAGTGTGGCCGAGGCTTTAGTCGGAATCACTCCTCCTTGTCCACCAGAGGACA
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCTC
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCAGTGAGTGTGGCCGAGGCTTTAGCCGAAA
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACCGGAGAAACCTGTGTATGCAGGGGTCATGAAC
AAGACCTGAGTGACCAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT
GTGAGTGAAGTTCAGAGATGTGTGCAGCCCTTATCAGGCATGGGAGGGACACGTTCAGGAGAGGAGCCTTATGAG
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC
ACCTTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA
GGTCTTTGTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC
TGTGGAGCTCTGCCAGATGACCTTTTCAGGGGTAAACCCAGCTGCTTGAGAGAACAGTGTGTGTGCTGGCAG
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCTTGACTCAACGGGGACAACCTCCAGAAGGTCAATCCAGATC
CAGAGATCCCCATCGAACTGAAGGATCACTGGGTGTCAGACACATTGCAGGTCACTTCTTCTCTGCCCAGTCC
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTCACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT
TCTGCATGTGTGGGAGAATGGACAAGGACTTAGGAAAAAGTCTCATCAAAGAACAGCTTTTTTGGGACAAGCT
TTACATGGGTGGGGAGGGAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC
ACTCAGGGAGAAGACCTCTGTGGGCAGGGCTTGTGGGTGGAGCTTCATCCCGATGTCACTCCTCACTGACTTAG
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACTCTGAGGGATTTTCAGGAAATGTCTTGACTCCCC
ATGTAATCTGTATGTGAGCGAAGATGGCAGTAAGTGTAAATAAGCATTCTTTTCTACTTCTTGAATCAGATGA
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5657

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFITNPRTLLGKKPYICSDCGRSFKDRST
LIRHHRIHSMEKPYVCSECGRGFSQKSNLSRHQORTHSEKPYLCRECGQSFRSKSILNRHQWTHSEKPYVCSEC
GRGFSEKSSFIRHQRTSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQRTSLD
EKPYVCRECGRGFCDKSTLIHERTHSGEKPYVCCEGGRGFSRKSLLLVHQRTSGEKHYVCRECRRGFSQKSNL
IRHQRTSNEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLLVHQRTSGEKHYVCRECG
RGFSHKSNLIRHQRTS

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FIGURE 5658

GATGAGGGTCTGCGGGGCCGCCAAAGGAGCCACGGATCTCACCACCTGCGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCCGGAACCCGTTCACAGGGCAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCAGGCCCAGGCCCTGTCTGCGGCCGAACGCAGGCCGAAACCCACCGTCGCGTCGCCCCGCGCCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTCGGCTCGCAATGCGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCGCCCCCGACCAATCGGAGGCCGGGACGACACCATCTCCGGCCTTTGGAG
GGGCGCCCCAGGGTGGTATCGCCCCGAGCGGGGCTGGGTGGTGGCGAGCGCGGGCGAGCGGGCCTTTTCGGCC
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCCGGGGACGCGCGCCCCCGGTGCGGCACTGCAGGCGCGGAAACGAC
TTGGGAAGGCCCTTTTCGGGGTAATAGTCCGGTTCCTGATGTTCTTGTCATATGAGTTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGGGCGTCCATCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCCGTCCCTACTCGG
GGACGAGCTCCCCGGCGCCGGGTGGGCGGTGCATCCTTTCTCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTGTTT
TTGGTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACGTGCGAAAGAAAGACGCTCCAGCGTCTTCCTAGGCC
AGTTTTCTTGTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTGTGCTCCTCCGCTTGGGCGGCC
CTGAATTCGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCTTGAGGGCGTCTTTGGGCACCT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCCTGGTATGTTTTAAAGAGTCATTGCAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATTGTTATTTTGTTAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATTCGTTACACATGTCTACTTACGAGTCAGAATCGTTATTCATTTAATATTTTAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTAAATTATTTTAACCGTCGTGAATACATCAAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTTAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCGAGACCAG
CCTGGCCAAACATGGTGAAACCCGCTCTCTACCAAAAAATAAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

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FIGURE 5659

MSYGQQSWVKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDEGVFVPYSGTSLPGAGWAVHPFLPP
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

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FIGURE 5660

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTGCGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCACA
GCATCGTTTCGTCCTGGTGGCCTTTTGTCCCTTTGCCTCATCCAGGTTGCCTTGGAATGCCAACGCCGTGTCTG
AAGGGTTGTTTCATGAGGACCTCCGCCTGCTCTTGAGACCCACCTGCCGTCCAAAAGAAGAAAGTACTCTTG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTGAGCTGTAAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTAATGTGAACCGGGTGGACAAATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTGAGGGAGTGGTACG
GGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTGGAA
ACCGAAGGGAAGTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAAGGTAAGGCTA
TTCTGGATGCCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTGAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAAGGCCCTGAAGACAAGGGGTA
ACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAGGCCGATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCCACGAGTGTATTG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGA AAAACCCAAAAGAAGAAAAGCAAAAGCCCCAGGAGGTTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTCTCCAAACCCAAAGAAAAGAAATCTTTTCCAAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAGAAGTCTACACCAAGGAGGAAAACAG
TTAATGACCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAGAGGAAATTTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAGAAGAAAAGTTCCATAAAGCATCCCAGGAAG
ATTAGAATGCAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTTCCACCCCTGTGCCG
TGTTCCCAATAAAAACAAATTCACAAG

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FIGURE 5661

TGATACATCGTTGCTCATTTCGAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCCTGGGGCATGGAG
AGGTCTGAGTACCTCGGCCGCGGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT
TCCCGTGACCATGCTTCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGC
CGCTGTCCAGTGGAGTTCAGGAGCACCACCTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA
GGTGTGAGTTCCATGAAGGAGAACAAGTGGCCATCATTGGAAAGATTATACCCCGATGGAGTATAAGGGGGA
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTGCCAACGTAGTCCATGTGAAGTCACTTCC
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTGTAAGATTGTCACACGAGCCAAGTCTCAGCGGATTGCAAA
GTTTCGCTTTGACTATGCCACCAAGAAGGGGCGGGCAAGGTCACTGCTGTCCACAAGGCCAACATCATGAACT
TGGGGATGGGTGTTCCTGCAGTGCTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT
CATAGACAACTGCTGCATGCAGCTGGTGCAGAATCCTTACCAGTTGATGTGCTTGTGATGCCCAATCTCTATGG
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA
ATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTGCCCAGGCAGTGGGCAGGAATATAGCCAATCCACGGC
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCACAACCGACTTCATCAA
GTCTGTATCGGTACCTGCAGACTAAAGGGAGCTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC
CCCATACCCTTCAGTGCAGTGTAACAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCACCCCTTGCT
GGGTAGAGCCTAGGTTGTCCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGATGGGGATTGTTAGGA
TGGAGCCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTCGAACCTCTGACATGGGTGGCTATGCTACT
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT
CAATAAAGAACATGAACCAAAA

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FIGURE 5662

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAHAASRSQAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA
VPVEFQEHHLSEVQNMASEEKLQVLSSMKENKVAIIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKSLPG
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG
DGLFLQCCEEVAELYPKIKFETMIIDNCCMLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS
VIGHLQTKGS

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FIGURE 5663

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTCGGCCCCGGCTCTGGGGGCGCCCAGGAAC TCG
GTGCTGGGCCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAGAAAAAGGTCATT
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCACTGGTGACTGCCGGGCCCCCTTGTGACCCCCACT
CCAGCAGGGACCCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCTCCTTTGGGTCTGGAGTCCCTGCGAGTT
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTTCAG
TCAGGCCTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAG
GTGGACGCTGGGCACCCACCCGCTTCTCGGGTGTATACACAGGGCAGGAACCTGTGCTGAGGTATGACTGG
GTCACATCATACAAGGTCCAGTTCAGCAATGACAGTCGGACCTGGTGGGGAAGTAGGAACCACAGCAGTGGGATG
GACGCAGTATTTCTGCCAATTCAGACCCAGAACTCCAGTGTGAACCTCCTGCCGGAGCCCCAGGTGGCCCCGC
TTCATTCCCTGCTGCCCCAGACCTGGCTCCAGGGAGGCGCGCCTTGCCCTCCGGGCAGAGATCCTGGCCTGCCCA
GTCTCAGACCCCAATGACCTATTCCTTGAGGCCCTGCGTCGGGATCCTCTGACCTCTAGACTTTTCAGCATCAC
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCAACATCACCCGCATCTACAGCATT
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTTCGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG
TTCCTGTGCCATGAGTTCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTACCTGCTG
CCCTCCATGAACCTGATGGCTATGAGATCGCCTACCACCGGGGTTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGCTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT
GGGAAGGTGCCCCACATCGTCCCAACCATCACCTGCCATTGCCCACTTACTACACCTGCCCAATGCCACCGTG
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCTTTGCTGCTAAGTGCCAACCTCCACGGGGT
GAGCTCGTGGTGTCTACCCATTTCGACATGACTCGCACCCCGTGGGCTGCCCGCGAGCTCACGCCCACACCAGAT
GATGCTGTGTTTCGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCC
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG
AATGACTTCAGTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCCTGTGACAAGTTCCCTCACGAG
AATGAATTGCCCCAGGAGTGGGAGAACAACAAAGACGCCCTCCTACCTACCTGGAGCAGGTGCGCATGGGCATT
GCAGGAGTGGTGGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCCAAGGGGACTACATGGTGACTGCCAGTGCC
GAGGGCTACCATTTCAGTGACACGGAACGTGCGGGTACCTTTGAAGAGGGCCCCCTTCCCCTGCAATTTGCTGCTC
ACCAAGACTCCCAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGCAGGCGC
CTGGAGCGGCTAAGGGGACAGAAGGATTGA

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FIGURE 5664

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVRIKVKKKVI
MKKRKKLTLTRPTPLVTAGPLVTPTAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ
SGLEDGDLYDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGM
DAVFPANSDPETFVLNLLPEPQVARFIRLLPQTLQGGAPCLRAEILACPVSDPNDLFLEAPASGSSDPLDFQHH
NYKAMRKLKMQVQECPNITRIYSIGKSYQGLKLYMEMSDKPGHEHELGEPEVRYVAGMHGNEALGRELLLLLMQ
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAYHRGSELVGWAEGRWNNQSIDLNNFADLNTPLWEAQDD
GKVPHIVPNHHLPLPTYTLPNATVAPETRAVIKWMKRIPFVLSANLHGGEVVSYPFDMTRTPWAARELTPTPD
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDTELGIADAVIAVDGINHDVTTAWGGDYWRLLTPGDYMTASA
EGYHSVTRNCRVTFEEGFFPCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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FIGURE 5665

GCTGTGAGGCTCGGAGTCGCCGAGGAGCCAGTATCTGTGTGCGCCGCCGCCGCGTCCCCGGTTTGGTGCTG
CGGCGCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGTATCCCTGGCTCTTGTGA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA
AATTGCCTGGTCAAATCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAAATGGCAGCTA
CTCTCAAGTCATTAAAACTTGTAAAGATACCGAGCATTTTGCAGTCCTTCTGCCTTTGGTGCAGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCTTGACAACCAGCAGTGCCCAACCAGGTTTGG
AATTCAGCAAGACTTCTTCTCTAAGGCCAGTACATTGCAGCTGGGCTCACCCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTGTTGATTCTTTGAAAACATGCGAGTTTTCTTACAGCTAAGACCAGAATACCGTGTTCACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTTCAGAAGGTGAATAATTTGCACAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTTGCCTGCAGAGCAGCATC
CTGTCTTGCTGGGCAGTACCAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTTGATACCC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCTTTTAGGAATCCCTCACTCCCATTCATGCTAGATGTGTATG
AGACCAAGTGTGTCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTA
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTTCTAGTTATCTTAATTTGCACTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACTTAATTTATGTTATAGGTGAAAATCGTCAGGTATCCCAGGACCTAATGCAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTGATCAATTTGGAGGAGGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA
GTACTAATCTCTCTGAATTTGTCTATGCGGAAAATTGGAGACTTGGCTTGTGCTAACATTCAGCATCTGAGTAGTC
GCTCCTTAGTGAAATATTGTTAAATGTTCCGTTTCACTCACGIGGATCACATCAATTTTCATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCCTTAC
GCTTCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCCTCCTAGAGTGGCACACTGTGCAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTGGAACCTCTGAATTATAAGCCACCCAATGCAGAAGAATTTTACTCCAGCC
TGATAAGTGAGATTACAGAAAGATGCCTGAATTCACCCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTTTTGGAGTACTTTCCAGTAGAGTTAATTGATTTGCTCTCAGTCCAGGGTTTGTGAGTTAGCTCAGG
AGAGAACTAAGTTTGACCTCCTTAAGGAACTATATACCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA
GAGGCAATCGTCTTAGTACTACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTCCTTAGAACTGTCTTTTTTACTGGAGACCATGCTGGGGGGGCCCCAGTACGTCAAGCACC
ATATGATTTTGCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCTGTGCCCCGAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTTCAGTTACAAACA
GGAACCAGTATTGCTATGGCTCCAGGGATCTCCTTGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT
TTCTTCATGAGAAAGTATTACCTCTGCTCTCTGAAGGGCATTTAGGGGCATTTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAATT
ACTGCAAAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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FIGURE 5666

MAATLKSLLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH
PGLEFSKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELILHK
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLFDTQDLINVLKAFVILGIPHSHSML
DVIETKCCHQVWEMNMDQLLLVADLWRYLGRKVPFLNIFSSYLNHLHWKDLSSLVHLIYVIGENRQVSQDLMQ
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSRSLVNIVKMFRTHTVDHINFMK
QIGEIAQORIPSLGVQGVMMHLTLYCSALRFLNEGVMNAVAASLPPRVAHCRSKDVAKILWSFGTLNYKPPNAEEF
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFPVELIDFALSPGFVRLAQERTKFDLLKELYTLDGTVGIEC
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP
LPFNREATPAENVAKLRLEHVGVS LTDDLMNKLLKGKARGHFQGKTESEPGQQPMELNKAAPVPLGGFLCNVADK
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLP LLKRTLE
KLAFLEHEKVFTSAL

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FIGURE 5667

CCTGGCCGGAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTCG
GTGGCTCAGCTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAATTCTAGGAGATAAGTTTTCCATGCACCTTTGGTGGCACAGAAAATTG
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGCCCCCTACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCACCTCAGCACCGGGGACCCAAGCCAGCCCGTGCCTGTTTCAGGGGCCGGACCTCGGGCCGGATCG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCAAACCTC
CCGCATCGGGCAGGCACCCCTGAAGTACTTCCCTCAGGGTTTCCCTTTGTGAGGGTGTGAGTAGCCTCACC
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGCCCTTAGGATT
CACTGCTCTCTCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTTCTGGATGAGA
CTTGTTTCCAAAATAAACAGCTATATCTGTTTTG

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FIGURE 5668

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCGCTGCAGTGGTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCCATGGCTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGCCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGGCTTTGACTTGAGGGCCCCGAGGCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCACGC
CTCTCACCTCTGCCTTCATTTGTGTGCCACCCTGCCCTCCCTCGTCTCTCTCTCCACTTCCTCCTCTCTGTG
TGCCTCAGTCTCCTGCCGGAAGAAATGGGTTGATCCGAAAGGAGGCTGTCTGAGGAAGGAGAGGGAGGGCCTG
GGGTGGGTCCCCACTCCCCACCCAAGCCACAGGGACTCCCACCAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCCACCCTCAGGTCTGTGTTACTTGGTTTTAAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5669

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML
LDGVKCVGALEYDSEHSDWHGFD

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FIGURE 5670

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG
AACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGCCCCCACC GTGGAA
GTAACCAAGGGCGCTTCCTTGTGGGCAGCTGCAGGCCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG
GGCAGAGGGGCCTGGGGCTGGGCCCAGAGTCCAGCCGTCCAGCTGCTCCTTTCCCAGTTTGATTCAATAAATCT
GTCCACTCCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5671

CGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCTCAAGGAGAAGGGCGCTG
CGCATAGCCGAGGAGCTGGGCATGGACGACTTACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTGTCAGCGGGTGGCCCCGCGCCGCGCGCAAACGCTGCCCCCGCACCCCGGGCGGCGCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCCTCGCAGGACGTGTTACGCGCCACCAGACCAGTCTATGGTACGACTTCTGCC
GACCAGGCCCGGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCTGAGCGTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCGTGGTGGCCGGCAAGTCGGCCAAAGCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACCGCAACTCCAAGGTGGTGTACCAACCCAGGCCCTGGCCAAGTACTTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGTCTGCTGTTGGCCGGCCGCTTGGCTGCCAGTCTCTGGAC
ACCTCGGGCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGTGGGTCTCACGGAGGCCCTGCACTTTGTGGCTGCCGCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCTGCTTTCGTGAGGCTGGCTTTGGGGGTGGCCCTAATGCCACCATCACCCTTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGATGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGGAGGCTGAGGACTGGGCCAGGGAGTA
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTGGAA
GGTGGGGAGGACTCTGATTACAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGAGAGCCACATCCTCCACTTGGAAACAGATCTGGTTTCAT
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCCAACCTAGATTGGCAGCACACCCAGGGCAGAGGACTCTCTGGGCACCCGCTGTGCATGGAGCCAG
AGTGCAGAGCCCCAGATCCTTTAGTAATGCTTCCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCCCG
GGCTGAGGTGAGCCTCACTGCCTGCTTATTGGCTCTTTCTCAGAATCCTCTTTCCTCCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG
CAGCCAGGGATGGGCCCTGGAGGTTCCCGGCCGAGAGTGCCCTCTCCCTCTGCCATCCACGTGAGGTCTTGGT
GGGGGACCCCAAGCCATTCTGGGAAGGGCTCCAGAAGAAGGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC
CCCACCCCAACCCCAAGGCCCTTGAGAAGCACAGTTTAACTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTTCCACCTCCCCAGTCCCTTTCTCTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTTCCAGATTGGAG
GTTTCCAAGAGGCCCCCACCCTGGAAGTAACCAAGGGCGCTTCCCTTGTGGCAGCTGCAGGCCCATGCCTCTC
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTTCCAGTTTGATTTCAATAAATCTGTCCACTCCCCTTTTGTGGGGTGAACGTTTTAACAGCC

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FIGURE 5672

MDDFTASNGWLD RFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGWRAREEQPPSVAEGYA
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYT
ANSKGGVTTQALAKYLKALDTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHY
RQAMLLKAMAALLEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTSLKSEGESEEEEE
EEEEEEEGESEEEEEEGESEEEEEEGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDWAQGVVEAGGSF
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDDDDEEDGDEVVPVSFGEAMAYFAMVKRYLTSFP
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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FIGURE 5673

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC
AAGCTCGAGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCTC
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC
CGCGTGCAGAGCCACATCCTCCACTTGGAACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGCAGGCG
GGAGTTCGAGGTCTTGACATCAAAGCTGA

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FIGURE 5674

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCTCCCTCCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG
GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCTCCTGGGGTCCCCGGTGGGGCGGCCGCTTCTCGCCG
GTCACCACCTCACCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGAGCCGCCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCTCCCTGTCTGCTGAATCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTCGA
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCCGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCTCCTCTCCCATCTTGGCTGCAGGATGGATTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGAAGCCTTTGCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG
TTCTCTCTGACCCCTGCAGAGGGGATACTGAGGAAGATGATGGATTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCAGGCATGGAGAGTCTTATTAGTCCCCACTGGTCAAGACCTTGGAAAAGGAAGAG
GAAAAGGACCTCGTCAATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACAGCCCGTGAGAATAAGCGGAGGCGGAGCGTGACC
CCTCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCTCCGCTCAAAATCACTGTGTACAGATGAG
ATCGAGAACCTCCTGGACAGTGACACCGAGAGCTGATTGGAGATTACTTAAGGCCTTCTCCTACAGACAGTA
GACGGAAGACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTACGCAAC
ATCGTGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTTACTACCCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGACCCGAACCTTCTGTGAACCCAGGACTACCGCCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCGCGCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGCTGCAGGACCAG
TGAGGGGCTGCGCCAGTCCCTGCTACCTCCCTTGCCCTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCCTGCCGG
GCTGAGGGCTGCTGGAGGCCICAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGCTCCTGCCGTGTGCCCCAGC
CCAGATTCCCCGTGTGTATCCCATCAFTTTCCATATCCTGGTGCCCCCACCCTGGAAGAGCCAGTCTGTTGA
GTTAGTTAAGTTGGGTTAATACCAGCTTAAAGGCAGTATTTGTGTCTCCTCAGGAGCTTCTTGTTCCTTGTAG
GGTTAACCCCTTCACTTCTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAACTCCTTCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCGGGC
CAGGGCTGCCCCAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCTTTCTCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCTATTTCAGTGTTACCTGTGTGCTTGGT
CTGTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCCTGTCAAATATCAGTTACCCAC
TCGGTCCCAGTTTTGTTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCAGCCCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTGCTGCTGTG
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCCTGTCAT
ACCCAAACCAGGTGGGAGCGTTTTGTTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCTTATTTGTGTGGA
CAAAAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTACAGAAGCAGCTAAACCAAGGACTGAGC
ACCCTCTGGATTCTGAATCTCAAGATGGGGCAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCT
TGGTTCAATAAAGCACTGAGCAAGTTGAG

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FIGURE 5675

GGGTCTGTCTCTTGCTTCAACAGTGTGTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC
AATTTCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACCGTT
TTTGTGTTAGCTCCTTCTTGGCGACCAACCATGAGCTCCCAGATTGTCAAAATTATTCACCGACGTGGAGGC
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCTACACCTACCTCTCTCTGGGCTTCTATTTGACCG
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG
GGGTAAAACCCAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCATCTCTGTGACTTCTGGAGACTCA
CTTCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCCC
AGAGGCTGGGCTGGGCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA
CTTCTGAAGGGCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTCTTA
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCCAAGGCAAGGCCAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAAATGAACTTCTCTTGCATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCGGGAGGAAGAAGACGAGTTTATTGTGGAGGGGCTCCTGAACATCTCCTG
GGGCTGCGCCGGCCCATTCGCTGCAGATGCAGGATGACAACGAACGCATTCGACCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCCGCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGTGCGTCGCCGTGGCAATGTGAGGACGCCTAGTGA
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCGCTGATTGCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTTCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAAGTTCGAGATGCCGTACTTAAAG
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT
AATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCACAGGAACCGCCATTGCCATAAGACCCACAGGAAGCTAGGCACTTTCTTCCATGGAACATTTAGACA
CAAACCTCCCGAGCTCCGGCCAAGCCATCATTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCTACCTGATACTTTCACATGTAATTAATTTCCA
GGCAACCAGCACAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACAGCTGTGCTGTGTTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGAAA
GAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCCAGTATTTTTTACACTGGAAACGTTGATTGTTTTAA
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT
TGAGTGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGGCTACACAGTGTGACAGCTAGTGTGGCCAG
GGCCTGGTGGCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTCATGTGCATCAAGGTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC
CATTTCTTCCAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGATGAAGCCT
CATCTTGCTACTGAGTGTGGGTTTCAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCTGGTTGGTGCCTCCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCCCTCCTGCCCCGATTACATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAGATGGCATGCGGCCCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCTCCATAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGCCCAAGGGCTTCTGCAAGCTGCACAGAACTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCTTTGTTACAGCTGGGAAAGAACAGTTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAATTTCTTCTTGGTAATTTTTATTTTGAATGTTTCAGGGCCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAATACTAACCCTAGCTCTT
ACTGGACAGGATTTCTGGCTTATAAGAGTTCTCTTTGATTTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTGAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTGCCCTCTTGAGAGGTCATTTCTCACGTCCTAAGAACCTGATCAGAAATTTTGAAGGGTTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 5676B

TGCAGTTTGAACCTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCTCGGGTCAAGATTTTGTATCTGAGACATGCTGATGCTTCAAGGAGAAATATTTTACAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCTAGAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTCTTTCTTTCTTTTTTTTTTTTTTGGAGACAGAGTCTGGTTCTG
TTTCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAAGATGCACAAGCTGTGGTG
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACTTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 5677

MDYSHQTSLVPCGQDKYISKNEILLHLKTYNLYYEGQNLQLRHREEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSDTSRGLKPLQEDTPQLMTRSDVGVR
RRGNVTPSDQRRIRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSF IQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 5678

GTCTCAGCCGGTCGTCGCGACGTTCCGCCGCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCTAGACTTTCTCC
TTCCCGCCTGCCGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCC
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC
TGCAGAGCATGGACTCGTCCACGTCTCTTTGGTGCAGCTCACCCIGCGGTCTGAGGGCTTCGACACCTACCGCT
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGCAATGAAGATA
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTT
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGGAAATCCAGAACAGGAGTACAGCTGTGTAG
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCTT
GTGCAAAAGACGGAGTGAAATTTTCTGCAAGTGGAGAACTTGGAAATGGAAACATTAAATGTACAGACAAGTA
ATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTTGCCTGAGGTACC
TGAACCTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTG
TAGAGTATAAAATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT
AGGCATTCTTAAATTTCAAGAAAATAAACTAAGCTCTTTGAGAACTGCTTCTAAGATGCCAGCATATACTGAAG
TCTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTCTGTAAATAACCTATTTTTTTCT
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTGTC
TCTTAGAAATACTTGTGATTTTTATAATACAAAAGGCTCTGACTCTAAATGCAGTTTTAAGAATTGTTTTTGAA
TTTAAATAAAGTTACTTGAATTTT

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CACGAGGACACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCTCTCTGCGCCTCGCTTCTCCGGTCCAGCGCG
CATCTTCTCTTTCCGCACAGGGGCCGCCGAGCGGGGCCATGCAGCCAACGCTGCTTCTCAGCCTCTCTGGGAGCCGT
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGACTCGCTGCATCAI
TGAGGTCTCTCAAATGCCTTGTCGAAGTCCAGCGCTCCACCCATCACCCTGAGTGCCGCCAAGTCTGAAGAC
GAGTAGAAAAGACGTCAAAGACAAAGAGACAACCTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGA
CCCAGCTGATGCCTCGGAAGCCCACGAGTCTCTCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA
AGGCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA
GTGGAGCCTCTATCCCTCCGACAGCCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACACCT
TGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAGAGGAGTT
AGTGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCGAAGCCAGGAAGAATC
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCAGACACCACCACGGGAGGAG
CAGGCCCGACAGGTCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA
GTCAAACGTCAGCATGGCCAGTTTAGGGGAAAAGAGGGACCACCATTCAACCCACTACAGGGCTTCAGAGGAAGA
ACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGCGTCCAGGCCCTGAGGACCTGGAGTGGGAGCGCTATAG
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA
CTACCCAGCTTAGAGCTTGATAAGATGGCACATGGATATGGTGAAGAAAGTGAGGAAGAGAGGGGCCTTGAGCC
GGGAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCTATTTCATGTCTGACACCAGAGAAGAGAA
AAGGTTCTTGAGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC
GTGGAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA
CCTGCAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAAATATAGCTCCCATCACACAGCTGA
AAAGAGGAAGAGATTAGGGGAAGTGTTCACCCATACTACGACCCTCTCCAGTGGAAGAGCAGCCATTTTGAAG
AAGAGACAACATGAATGACAATTTTCTCAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT
CCCAGAAATACAACTATGACTGGTGGGAGAAAAGCCCTTCTCTGAGGATGTGAACTGGGGGTATGAGAAGAGAAA
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCACTGGACCAGCTCCTTCTACTA
CAGGAAGAAGTGCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCACCAGGAGGCAGAAAA
TGAAAAGGACAGGGTGACGACAGACTCTGACAGGAGGACGAGAAAAAGAACTCGAAAACCTTGGCTGCAATGGA
TTTGAAGTACAGAAGATAGCTGAGAAATTCAGCCAAAAGGGGCTGACTGTCAATTGGAGCGGTGGGCAGTGTTAAG
AAGCAGCCATCACAATGATCTGTTTTTACCACCTTCACGTGAAAGACACCACTTATATACCCAAGGGCAGAAAGTAG
AACTTACTATTTCATTAAATGTTTGACACAATTGGAATTGTCTTTAATTTCTGTGAGAATGCTATTGAAAATGTGA
ATTGCATGACTTGTAGCATATTCTTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG
TCTTTGAAAAATGTTTGTCTCAGTTGGAATAATAAAAAGATTACCTGAGACC

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FIGURE 5680

MQPTLLLSILGAVGLAAVNSMPVDNRNHNHNEGMVTRCIIIEVLSNALSKSSAPPITPECRQVLKTSRKDVVKDKETTE
NENTKFEVRLLRDPADASEAHESSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSE
EVKTRHSEKSQREDEEEEEGENYQKGERGEDSSEEKHEEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESSEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP
SEEKGHPQEESSESNVSMASLGEKRDHSTHYRASEEEPEYGEEIKGYPGVQAPEDLEWERYRGRGSEEYRAPRP
QSEESWDEEDKRNYPSELDKMAHGYGEESEEEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQGLQDTKENREEARFQDKQYSSHTAEKRKRLGELFNPY
YDPLQWKSSHFERDNMNDNFLEGEEENELTLNEKNFFPEYNYDWWEKKPFSEVDNWGYEKRNLARVPKLDLKRQ
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELENLAAMDLELQKIAEKFSQ
RG

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FIGURE 5681

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGCGCCGCTTGGGCTCCGGGAACGCGGCCG
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGAACGCTGGAGG
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCCGGGATCGGCCAGCGGAACCACTGTTCCGGCGCGGGGAAGGCG
GCTCCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCGGCGAGCACCCCC
AGCCTGTATGAAAACCCATGGACAATCCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTCCACTTACTTACATGATCATTTCG
AGAGATGTAATGTTGATTGCTGCTGTTTTTATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAG
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAACCAACATTCATCAGCAAGGTGAATACAGCAGTCCAGTTA
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT
TTTACAGCTTTCACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA
GACTGA

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FIGURE 5682

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLII EEDFNIALGVFALAGLTDLLD
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVFYVRYRTLPTPTLAK
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK
D

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FIGURE 5683

GCCTGGCTCCGTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTTCGTGCGCCTTCTACC
TCGCTGTTTCGGTTTTCCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATATCAACA
ATATGAATGACAAAATTA AAAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGGCAGGCCTTTGTCAATTTAAGGAAGTGGGCTCATCCA
CAAATGCCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT
CGGATATAATATCAAAAATGCGTGGAACCTTTTGCTGACAAAGAAAAGAAAAAGAAAAAGCCAAAACCTG
TGGACAGACTGCAACAACCACAAAAGCCTGGCCAGGGAACCCAAATTCAGCTAATACCCAAGGAAATT
CAACACCAAATCCTCAGGTCCCTGATTACCCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA
ATGAGATGATGTTATCCATGCTGTTAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG
ACATTGCTTTTGTGAATTTGAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATTAACATTGGGATAGTCGTCTTTAAAAGACTTGGTGT
TATTTACAGTGTGTTTTGATAACATTTGGCTGGGTCATTTTAAATAGTTAGAGATGAGGAGGAGTAAAAGTGAA
ATTTTTGTGAAGGACTTAAATTATCCAGTGTTCCTTTAGCCTTGGTGAACCTATGAAATACGAAGGCCTTAATTT
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5684

MDIRPNHTIYINNMNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFPFY
GKPMRIQYAKTDSDIISKMRGTFADKEKKKEKKAKTVEQTATTNKKPGQGTPNSANTQGNSTPNPQVPDYPPN
YILFLNNLPEETNEMMLSMLFNQFPGFKEVRLVPGRHDIAFVEFENDGQAGAARDALQGFKITPSHAMKITYAKK

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FIGURE 5686

MAAVPELLQQEEDRSKLRSVSVDLNVDPQLQIDIPDALSERDKVKFTVHTKTTLPFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGESEGSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHFVLEYDQDLSVRRKNTKEMFGGFFKSVVKSADVLFTGVKEVDDFFEQKNFLINYNNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYMYL
NIEAAKDLLYRRTKALIDYENSNKALDKARLKSVDKLAEAHQECCQKFEQLSESAKEELINFKRKRVAAFRKN
LIEMSELEIKHARNNVSLQSCIDLFKNN

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FIGURE 5687

GAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCCTCCTCGTGGAGCGGAGCAAGGGTAG
GCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCTCCTGCCGCCGTGGGGCAG
GGAGGCCGGCGGAGGCGGGGCGGTGGCCGCCCCGAGAGGCGCCAGGCGGCGGCGGCGGCGGCGGCCAGCTTCTTC
TTTCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGCGGGAAGCACCCGTG
AGACCCGGGCGGCCCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCGGGGAATCCCTGTGGATGTCCGGATTCTA
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGTTGCCGAGCGGACTTGGAGAGATGATC
TCTGGAGACCCCGGAATGTTCTTTTTAAACTTTCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC
TTAACATGCGACAGACCAGTTTGGTTTGTGGCCCCAAAATACCCTCCTTCCCCCACCTTTTACTGAGAAGACT
TTTTTGGGGGGGGGGCCCAACAACCTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACCTTTAGAAAC
GCAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTAGTAGGTGCTCAAATACTTGCTGAACTTGGTGTCTATTTT
TAAGTCTTGCCCATTGATGTAACTGTCCCTAGGTCACGTGTATCTTGAGGTCTAAAAGATTATTTATGCAATAA
ATTGAAATTCCCATAGCCAATTAAAGATTCT

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FIGURE 5688

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCT
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCCGGCTCCAAGATGGACGGCAGCGGGGACTG
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCGAGAGGCGCCCAGGCGG
CGGCGGCGGCGGCCAGCTTCTTCTTTCCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCGCCATGGCC
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA
TGTCCCGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC
TT

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FIGURE 5689A

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCCTCTGCGCCTCGGGCGGGCGGGAGA
GAGAGGCCGCGGCCGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCCTCTCGGTGCTGCTGACGG
CGGCCACAGTGGCCGGCGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA
TTGAGAGGCAAATTCGGAAGAAAGAAAACATTCTCTTTGGGAGAACAGATTATTTTACTGAGCAACTTGAAG
CAGAAAGAGAGAAGATGTTATTGGCAAAAGGATCTCAAAAATCATGACTTGAATGTGAAATATCTGTTGGACAGA
CAACACGAGTTTGTGTGTGTGTGTGATGGAGAGTAGCTTAGTAGTATCTTCATCTTTTTTTTTTGGTCACGTGTC
TTTTAACTTGATCAAATAAAGGACAGTGGGTCAATAAGTTACTGCTTTCAGGGTCCCTTATATCTGAATAAAG
GAGTGTGGGCAGACACTTTTTTGAAGAGTCTGTCTGGGTGATCCTGGTAGAAGCCCCATTAGGGTCACGTGCCAG
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAACATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG
GAGAGACGCTCCTGATCGTCAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC
TCAACAGTGATGAAGGAGACGTGTCTTGATGGAGGAGCAGCTGTCTACTTCTGTGACAAGTGCCAAAAATGGA
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTAGGTTTACTTGTTCGGATT
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTATGTTGGCAATGTACA
ACTTGTCTCTGGAAGGAAGTGGACGTCAAGGTTATTTTCAGGTGGAAAGAAGATATCTGTGCTTTTATTGAGAAAC
ATTGGACTTTTTTACTAGGGAATAGGAAAAAGACGTCTACCTGGTGGAGCACCGTGGCAGGTTGCCTCAGCGTGG
GAAGTCCCATGTACTTCCGTTTCAGGTGCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC
CCCCAACGATGAAACCTGAAGGAGAGAAGTTGTCTGCCTCTACTTTGAAAATAAAGCAGCCTCAAAACCAACTT
TAGATCCCATCATTACTGTTGAGGGACTTAGAAAACGAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA
AAGAGAAAAGGTCTCGAACTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCCGCTGGCTTTCTTGACA
GGAGCACATCTTCTACCCCTGTAAAATTCTAAGCCGAGGCCGAGGCCAGATGTGATTCTGGAAAAAGGCGAAG
TGATTGACTTTTCTCTTCTGAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCCTTCTCTGGATT
TCTCTGCCCCCTGGTACACCTGCCTCTCATTCTGCCACACCTAGCTTGCTTTCAGAAGCAGATCTGATTCCAGATG
TGATGCCCCCACAAGCCTTGTTTCATGATGACGATGAGATGGAAGGCGATGGAGTCATAGACCCAGGGATGGAGT
ACGTCCCACCCCTGCTGGGTCACTAGCTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC
AGATAAAGCAGGAGGTAGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGAAGACACAGATTCAA
ACACATCTTTGCAAAACAAGGGCTAGAGAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCCA
GGTATACTCCCGTGAGCATCTACGAGGAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCGCCGCTGCTGTTGCCA
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACTGATTGTGACAGCAAGCGAAAAGGGATAGGGGATTACCACTTT
TTGACTTGGATCAAGTTGTTAATGCTGCTCTTTTGTTAGTTGACGGGATTTATGGAGCCAAAGAAGGAGGAATTT
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGACTTCAGAATCCTTGACCGATACCAGACTT
CCTTGCCGTCCAGGAAGGGATTTCGACACCAGACCACCAAGTTTTTGTATCGCTTGGTAGGATCAGAAGATATGG
CTGTGGACCAGATATTGTGACCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA
AGCCACCCAAACTGCAGCTCCTGTGACAGATTCTGTTCCACCTGCACAGGAGCGACCCCTCACTGGACGCCGGAGC
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTGTCAGGAGTTTT
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCCAGACTTCAGTGTGTGTTGTTCTTTATAAAAAAGTCA
TCATTGCCTTTGGCTTCATGGTTCCCTGATGTGAAATACAATGAAGCTTACATTTCTGTTCTGTTCCACCCTG
AATGGAGAAGAGCAGGGATTGCAACTTTCATGATCTATCATCTGATTGACCTGCAAGGGCAAGGACGTAACCC
TTCAGCTCTCAGCAAGCAACCCCTGCTATGCTACTGTACCAGAAGTTGGATTCAAGACTGAAGAATATGTATTAG
ATTTCTATGATAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTGTGGAGATCTAAAGGCAGTGATTGA
TTTACAGGGAGCTCTAATCTCTGTGATTACATGGTCTTCAAACCTCCAACCAAGTGAGAAAAGCGGCATGCA
GTGAAATGAGCAGTGAGCAGCCCTTAGCAAAATCGCCCTCCAGTCTCTCTGGAGATGCCTTCAGCCAGCATCC
CAGACTCCACAGTTATTTATGAATGATGTGCTGATTCTCCCTCCACCTGACAGTTTGAAGAGTGAAGAGCATC
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTGATAACTTAAAGGATGAGAAAATGTGGTGTAGCTATTAA
AGATTATGCACTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTCATAAAAGGAATCCAA
CCCTGTGCCCGGCCATTGATGTGTGTCATTGAATCCAGGAGGATTCTAGGGCACTGAAGTTTTGTTGTTCTT
TTGCTGACTTTGGTTACAGTCAGAAAAATAAACTAGATGTTTGTGCTACATGTTCTACCTGTTGTACCTATTA

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FIGURE 5689B

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGAAGTGTGGGTGATGCAAGT
AGAACCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTGCTGTGTTGTGGATGTTGGCGATAGAC
TGTCAATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTCTCAAATAAAAAGCTTTCT
TTGCACAACCC

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FIGURE 5690

MDSSIHLSLISRHDDEATRTSTSEGLEEGEVEGETILLIVESEDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY
FCDKCQKWIPASQLREQLSYLKGNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE
DICAFIEKHWTFLGNRKKSTWWSTVAGCLSVGSPMYFRSGAQEFGEFGWWKLVHNKPPTMKPEGEKLSASTLK
IKAASKPTLDP IITVEGLRKRASRNPVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP
DVILEKGEVIDFSSLSSSDRTPLTSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVMPPQALFHDDDEMEGD
GVIDPGMEYVPPAGSVASGPVVGVRKKVRGPEQIKQEVESEEEKPDRMDIDSEDTDSNTSLQTRAREKRKPQLE
KDTKPKEPRYTPVSIYEEKLLLKRLEACPGAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLVDGI
YGAKEGGISRLPAGQATYRTTCQDFRILDYQTSLSRKGFRHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP
YIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWP GIDLSECLQYPDFS
VVVLYKKV IIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQTCMGKDVTLHVSASNPAMLLYQKFG
FKTEEYVLDFYDKYYPLESTECKHAFFLR

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FIGURE 5691

ATGATGAACACAAACGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAA
GGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAGTGTACCCAGCATGCTGTTGGCATTGTT
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG
ATCAGAAAAAAAAAAGAAGCCAAAGAGAAAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG
GAACTTATCCGTATGAATTCATGGCTAA

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FIGURE 5692

MMNTNGKRRGTRYMF SRTFRKHGVVPLVTYMRIYKKGDIVDIKGMGTVQKGMPhKCYHGKTGRVYSVTQHAVGIV
SINVHTEHMKHKS RDSFLKCMRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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FIGURE 5693

TGGGCGCGCCTTCCGGGTGTCACCTCCAGAGGGCGCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC
ATCGCGGCGCGCGCCCACTCGCCCCAGCCGCCGCCATGAAGGCCGTGGTGCAGCGCGTCACCCGGGCCAGCGTCA
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC
AGAAGGAAC TGAACACATGGTCCGAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTCAGCCAGTTTACCCTCCAGTGTGTCTGAAGGGAA
ACAAGCCTGATTTCACCTAGCAATGCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCCTGGAGCAGCTGC
GTAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTCAGAATGATG
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT
CTGTCTCCCAGGCTGGAGTGCAGTGGCGCGATCTCCGTTTATTGCAAGCTCCACCTCCCGGGTTCATGCCATTCT
TCTGCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTGTATTTTTTT
AGTAGAGACGGGGTTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGCCCTGGTGATCCACCCGCCCTCGGCCT
CCCAAAGTGTGGGATTACAGGTGTGAAC TACCGCGCCCAAGTTCAGTGGTTTTTAAATGTCTTTTTT
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTAGTTGTCACTTCTGCTTAGTCTCTCCAATCTGTGACAG
TTCTCAGCCTTTCTTGTCTTTTGTGACATTGATACTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGGGTATTGATTGTCTTGTACCTGTGATACCAGCCTTAT
TACTTGGTTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTCCCTTGTCTGTCT
CTGGCTCATTACAGCAGACAGCTCTCTCTCAGCTTTCAGGGAAAGAAGCCAGCAGATGGCATTGACTCTGCTT
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCTTTCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG
GACCAGCTACATAATTTGAGAGGCCAGTGTAATAATGAAAATGTGGGGCCCTTGTTCAAAAATATTACAAATT
TCAAGGTGGTGACATAGAGCATAAAACGAAAGGTGGGGCCCTCTGAAGGTGGGGCTGTGTGACTGCTCGGCTG
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTCTC
TTGTTGGTTCTGTCTGCCTCTCACAGTCAATCATCTTATCCCATGGGTTTTTAAATATGCCCAAATGTCTCCAAT
TGAGAAATGCTTCCATTTCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTTCTCACCAGGGGCC
CCAGTGACCTCACATTGCTTTATTTTCATGCCATTTTTTCAGAACACTTTTCTTGCCACTGCTGCCCACTTTTGCC
CCTGGAAATGGCTGGAGCCTTGTTCCTCCAGGACGTACTTCTCTGGGTTTTTGTCTTGCCCTCTGGCTACTCCCT
CTGGTTTTTATTGATCATTATTCCATAGTTTTTTAGTTATTATTCTGCTTTAACTCTATTTGGAGAAAAATTTAG
TCTTTTTTTTCACTTAAATATTTTTCCGGAATGGTAGAATAGTACATTTTGCCTTTAGAATCTTCACCTTTCTT
TCAACCAGTACCCTCTTCTTGTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTTGGGTGAGTAAGTCTCAAGAT
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACTGGGAGTAGATTTAGGAATTCTCAGCACACACAGA
ATAAAGGACGGTAAGTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG
TAGATCAGAGCATCATGCTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5694

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDKQYEIL
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP
GTATSDPKQTD SRSVSQAGVQWRDLRSLQAPPPGFMPFFCLSLPSSWDYRHVPPCPANFFVFF

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FIGURE 5695

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTTCATCCGACACC
AGCTGCCCTCCACCATGCTGCCGAAGTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAGGTTGGTGATGACAT
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAACTAACCATTGAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCTTCTGCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCAGTCTGTGGGCTGTAATGTTGATGGCCG
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAGGATCATTGACAA

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FIGURE 5696

ATGAAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAGGCTCAAAGAGAAC
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG
GCACCTACAAAGGCAGCACCTAAGCAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGAAAA
CGCTAA

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FIGURE 5697

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAK
APTKAAPKQKTVKVVKSAPQVGGR

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FIGURE 5698

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTCAAGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAATAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCCAGCCTAACCATGA
CCCAAATACTCATCATTTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAACAAGCCAAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAGAGAAAAGAAGGAAAGCATGATGAACCTGCCGATAGTCTTCTTGTGC
AGAAGGAGAGTTTTATCTTCTTCCGCTTAATGTTCTTCTGAGTATTGGAAAGAGAACTCACAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTGGCCATCGTTAGAGATTAGGGAATAATGCAATTGACCGTTTGGTTAACATATACAAAATGTGGTACA
CAAACCTGGGGGTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAGACGACAGAAAGAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCCTCCTAGTGAATATTAACCTCCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTACATCTGATGGCTCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTCAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGTCGAAAGTTGTGCAGTCTGACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCTCGAAGTGGTATTATCCATTTTATTATGCACCATTTGC
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAGAAGGTACGAAACCGTTTAAACCACTAGAACAA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA
TTCTAGTATAATTGACTTCTATCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGGATGAGCGAAGGCTACGAGCTGCCCTAGAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGGAGGTGATGTCCTTATTTGTGGGAAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACTATGTGATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAAGTGGCATTTCAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTTATGTCAAATATGAGGCCCCAGGATTCTTGCGAGGTCC
TCCTCCCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAAACCCAGAATGCAGCCTTCCAGCCAAACAGTACCAGATGCTAGCTGGGCCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAATACCCTTTGCCACCACCCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAGCTTTCCCAAATCCTTTCATCATTCTACAGTTTTATGCTATTTGTGGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATTTCTAC
TGATCTGATCTCAGTGTATGTTGCTTTCCAAAGATGATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTC
AAAACACAGTGATTTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACCTTGA
GCTGGAACCTCAGCAAACTAGAGTATATATTGTTTCAATTTCTTTGGAAACATTTTATTAATGTACTTGTCTTA
CAGAAATTTCTGAACCTTTAGTAAAAAAAATAAAGTTAACTTTTAAACTCAAAAAAAAAAAAAAAAAA

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FIGURE 5699

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKF
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGFIADMPSDFEKGTKPFKPLEQLMG
VFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYDLPTEETR
RNSLGGDVLVFGKHHPLHDFILELYQTGSTPEVPELCHGIQKFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPVVTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGGRGYPREGRKYLPPLPSGRYNWN

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FIGURE 5700

CCCGCCCACTTCCAACCTACCGCCTCCGGCCTGCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTAAAAGAGGGTGGGGGTGGGGGGTGATTGCT
GGTCGTTTGTGTGGCTGTAAATTTTAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG
AAGGGCACGAGCCGTCCGACTGGAGCAGCTACTATGCAGAGCCCCGAGGGCTACTCCTCCGTGAGCAACATGAACG
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTGCGCGGCCGCCATGGGCAGCGGCTCGGGCAACA
TGAGCGCGGGCTCCATGAACATGTCGTTCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGGATGTCCCCCG
GCGCGGGGCCCATGGCGGGCATGGGCGGCTCGGCGGGGCGGCCGGCGTGGCGGGCATGGGGCCGCACTTGAGTC
CCAGCCTGAGCCCGCTCGGGGGCAGGCGGCCGGGGCCATGGGCGGCCTGGCCCCCTACGCCAACATGAACTCCA
TGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGA
GCGAGATCTACCAGTGGATCATGGACCTCTTCCCTTCTACCGGCAGAACAGCAGCGCTGGCAGAACTCCATCC
GCCACTCGCTCTCCTTCAACGACTGTTTCTGAAAGTGCCCCGCTCGCCCGACAAGCCCGGCAAGGGCTCCTTCT
GGACCCTGCACCCTGACTCGGGCAACATGTTTCGAGAACGGCTGTACCTGCGCCGCCAGAAGCGCTTCAAGTGCG
AGAAGCAGCTGGCGCTGAAGGAGGCCGAGGCGCCGGCGCAGCGGCAAGAAGGCGGCCCGCGGAGCCAGGCCT
CACAGGCTCAACTCGGGGAGGCCGCCGGGCGGCCTCCGAGACTCCGGCGGGCACCGAGTCGCCTCACTCGAGCG
CCTCCCCGTGCCAGGAGCACAAAGCAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC
CAGAGCCGGCGCCCTCTCCGGGCAGCAGCAGCAGCGCCGCGGCCACCTGCTGGGCCCGCCCCACCACCGGGCC
TGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCCGTTCTCCATCAACAACCTCATGT
CCTCGGAGCAGCAGCACCACCACAGCCACCACCACCAACCCACAAAATGGACCTCAAGGCCTACGAACAGG
TGATGCACTACCCCGGCTACGGTTCCCCCATGCCTGGCAGCTTGGCCATGGGCCCGGTACGAACAAAACGGGCC
TGGACGCCTCGCCCCTGGCCGCAGATACCTCCTACTACCAGGGGGTGTACTCCCGGCCATTATGAACTCCTCTT
AAGAAGACGACGGCTTCAGGCCCGGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTG
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACCCCCAA
GACAGCAGTCTTCTTACCCGCTGCAGCCGTTCCGTCCCAACAGAGGGCCACACAGATACCCACGTTCTATAT
AAGGAGGAAAACGGGAAAGAATATAAAGTTAAAAAAAAGCCTCCGGTTTCCACTACTGTGTAGACTCCTGCTTCT
TCAAGCACCTGCAGATTCTGATTTTTTTGTTGTTGTTGTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACT
TAAAAAATAAATAATTTGTGAGTGACTCGGTGTAAACCATGTAGTTTTAACAGAACCAGAGGGTTGTACTA
TTGTTTAAAAACAGGAAAAAATAATGTAAGGGTCTGTTGTAAATGACCAAG

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FIGURE 5701

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG
AGCCCCACTTCCGGGCGGTGAGAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG
GCGGACGGGTGCGACAGCGCCGGCCCTGCGGCCGAGGTCGTACAGACGATGATGGCCAGGCCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTCTCTCACCGTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCGCTCTTG
CTTGGTGTTCTGTCATCCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAAACCTTGAAAATGGTGAA
ATAGAGACCATTGCCCGGTTTGGTTCGGGCCCTTGCAAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGCAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAACCTGCTGCTGTCTCCGAGACACCCATTGAGGGGAAGAACATGTCCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGAAGTAAAGTTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCCTGGTGGCAGAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTTGTGGAGAACATGCCTGGA
TTTTCCAGACAACATCCGGCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTCGACCATCCGCCCTAACCCCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAAGGATGATTTTTAAGCTCTTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCTTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCCAGATAGCTGCCCCCTGCCACGCAGGCC
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCTCGAGGATGCCCGGGCCCCACCTGGGCTT
GTCTTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTTAGGATTTGGGAAGCTCCTTGCACTTGGAAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCTGCGGCCTCAAAGTTCTTCTTTAC
TATATATAACGTGCGGTACATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAAGTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGATGAAAAGCTTGTTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAAAGCTCT
TGTCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCTATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA
CGATAAATCG

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FIGURE 5702

MSEADGLRQRRPLRPQVVTDGQAFQAEKDGSSFSGRVFRVTFMLAVSLTVPLLGAAMLLLESPIDPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPESIAHIGDVMFTGTADGRVVKLENGEIETIARFGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLLLEYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFDPNIRPSSSGGYWVGMSITIRPNPGFSMLDFLSERPWIKRMIFKLFQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYISEVHEHDGHLVYLGSRSPFLCRLSLQAV

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FIGURE 5703

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGAGCCCAAAGACCGGCTGCCGC
CTGCTCCCCGAAAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGGGTGCATGGAATGGGCTATGTGAATG

AAAAAAGGTATCCGTTATGAACTTCCAGAAAAACGAGCTACATTTTTCAGCAGCCGACGACAGGTCTTTGGCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTCATCTATGTTGCCTACATCAAGTGGCACCAGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGGCCCCGGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTACCCCGGCCCCCAGAGAA
ACTCCACGTTAACCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACACTGAGTGTGCTAAACAGGACATTCCGTTTCGACTTCTGGAAGGCCACCCCT
CTGGTCTCAAGGCCACAGCTGGCTTACGCCTGTACCTGGAGAAAAGGCCCAGAACTTACTGCAGAAGGTGAAA
GAAGTATTTAAAGCATCGCCTTTCCTTGTAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCTGACAGGCAGCTTGAAGTCCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCGGCTAC
CTGACGGCACTGCGGATGTTTAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTCG
GCACGCTGGCGATCCTGGGCGGCGTGGAGGGGACGCTGCTAAGGATGGAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGACTTCTATGCTTTCTCTACTATTACGACCTTGCAGCTGGTGTGGGCCTCATAGATGCGGAGAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTCGGACCCTGGAGACACAGCCGACAGCAGC
CCCTTCTCATGCATGGACCTACCTACGTGAGCTGCTACTCCAGGAGTTTCGGCTTTCCAGGAGCAAAGTGCTG
AAGCTCAGTCGGAATAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTCATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGGCCGAGCCATCCCTGTCCCCGTGAGCAGTGTCTGTGTGCTGCATA
AACCCTCCTGTCTGGACGTGACTTCATCCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTCTGCACACTGG
CTCTGGGACTTGCAGAAGGCCGTGGTGTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGCCCTGCTCAATGCCACCTGTCTGCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC
ACACIGAGGGGGCAGTGTGGCTCCCTGCCTGTCCCATCCCCATGCCCCGTCCGCGGGGCTGTGGCTGCTGTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGAGTTTCTCCCCAGGGCAGAGCTCCCCCTTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACCTGGAATTGAGTGTGTTTGTCTTCTTGGGTATGAATGTGTGAGTTCA
CCCAGAGGCCCTGCTCTCCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTTCATAGACGGC
AGGTGCCCCACCTTTTCAGGGAGTCTCCAGCATGGGCGGATGCCGGGCATGAGCTGCTGTAAACTATTTGTGGCTG
TGCTGCTTGAGTGACGTCTCTGTGCTGTGGGTGCCAAGTGTCTGTGTAGAACTGTGTTCTGAGCCCCCTTTTCT
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCTAGCCAGGGCCATGTCTTAGGTGC
AGCTGTGCCACGGGTCAGCTGAGCCACAGTCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCCACCT
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGGTGCATCCTGCTCAGTGTGGCGTCAGTGTG
GGGCTGAGCCCCCTTGAAGTGTGACAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5704

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT
RAAPGARWGQQAHSPLGTAADGHEVFYGIMFDAGSTGTRVHVQFTRPPRETPTLTHETFKAVKPGLSAYADDVE
KSAQGIRELLDVAQDIPFDWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG
VSAWITINFLTGSLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLOASPPGYLTALRMFNRTYKLYSYSYLGGLM
SARLAILGGVEGQPAKDGGKELVSPCLSPSFKGEWEHAEVTYRVSGQKAAASLHELCAARVSEVLQNRVHRTEEVK
HVDFYAFSYYDLAAGVGLIDAEKGGSLVVGDFEIAAKYVCRTLETQPQSSPFSCMDLTYVSLLLQEFGFPRSKV
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS

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FIGURE 5705A

GAGCAGCTGCACCATCCCCGGCTTCGCGTGTGCCGCCGCTTTCCTCCTCCATCTCTTTTCTCCGCTCCGCCGG
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGC CGCGCCTGGCGGGGCTAGGCGA
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACTTCACGCTGGTCAAGGACCGCAATGTGGCCACGCC
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGC CGCGACCACTCGTGGGCCGCTGGATCCGCACGCAGCAGCA
CTACTACGAGCGCGACCCCAAGCGCATTTATTATCTTTCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
GATGGTGAACCTGGGCCCTTCAGAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACTCGA
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCCTGGGGAGGCTGGCAGCGTGTTCCTTGACTCAATGGC
TACCTTGGGCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTAAACCAGAAGATTGTCAATGG
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCCTGAGTATATGCT
TCCCGTGCACTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGTGCTGGC
CATGCCCTACGACACCCCACTGCCCCGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAACCTTGGCTGA
GAACATCTCCAGGGTCTGTATCCAAATGATACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCCGCTTCAAGTCGTCCAAGTTCGGCTGCCGGGACCCCTGTGAG
AACCTGTTTCGAGACGTTCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCACGAAGAAGACCTGTGC
ATACACCAACCACACTGTGCTGCCTGAGGCCTTGGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCGCG
GCACCTGGAGATAATCTATGCCATCAACCAGCGGCACCTGGACCAGTGGCCGCGCTGTTTCCCGCGCATGTGGA
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGACTGCAAGCGGATCAACATGCCCCACCTGTGTGTGATTGG
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAAACAGTCGGTCTTTAAGGATTTTATGA
ACTGGAGCCAGAGAAGTTCAGAATAAGACCAATGGCATCACCCCCCGCGGTGGCTGCTGCTGTGCAACCCGGG
GCTGGCCGATAACCATCGTGGAGAAAATTGGGAGGAGTTCCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
GCTGGTCACTGACGAGGTGTTCATCAGGGACGTGGCCAAGGTCAAACAGGAGAACAAAGCTCAAGTCTCGGCCCT
CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA
CAAGCGGCAGCTGCTCAACTGCCTGCACGTGTCACCCTGTACAATCGAATCAAGAGAGACCCGCCAAGGCTTT
TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGGTTACCACATGGCCAAGCTGATCATCAAGTTGGT
CACCTCCATCGGCGACGTGCTCAATCATGACCCAGTTGIGGGTGACAGGTTGAAAGTGATCTTCTGGGAGAACTA
CCGTGTGCTCCTTGGCTGAGAAAGTGATCCCGCCGCTGATCTGTGCGCAGCAGATCTCCACTGCAGGCACCGAGGC
CTCAGGCACAGGCAACATGAAGTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
GATGGCCGAGGAGGCGGGGCGGAGAACCTTTCATCTTCGGCCTGCGGGTGGAGGATGTCGAGGCGCTTGGACCG
GAAAGGTACAATGCCAGGGAGTACTACGACCACCTGCCCGAGCTGAAGCAGGCCGTGGACCAGATCAGCAGTGG
CTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGBAACCCCAAGGAGTGGAC
CAAGAAGGTCAATCAGGAACATCGCCTGCTCGGGCAAGTTCTCCAGTGACCGGACCATCACGGAGTATGCACGGGA
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
CTGCTGGGCTCCCCAGAACTTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTGAGCCTCTGGAT
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCTGCCAGCCCTGCCTCCTGGCCATGCCGGGAGGGGTGGAT
CCTCTAGGCATCGCCTTCACAGCCCCCTGCCCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTATGG
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGGAAACCCGGGATGACTGAGGG
GGACACTGGAGTGGGTGCTTGTGTCTGCTGCTCAGAGGCCCTTGGTCAGGATGAAGTTGGCTGACACAGCTTAGC
TTGGTTTTGCTTATTCAAAAGAGAAAATAACTACACATGGAATGAAACTAGCTGAAGCCTTTTCTGTTTTAGC
AACTGAAAATTGTACTTGGTCACTTTTGTGCTTGAGGAGGCCCATTTTCTGCCTGGCAGGGGGCAGGTCTGTGCC
CTCCCGCTGACTCCTGCTGTGCTGCTGAGGTGCATTTCTGTTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC
CTTTCCACCAGTGCCACAGCCTCGTCTGGAAAAAGGACCAGGGGTCCCGGAGGAACCCATTGTGTCTGCTTGG
ACAGCAGGCCCTGGCACTGGGAGGTGGGGGTGAGCCCTCACAGCCTTGCCCCCTCCCAAGGCTGGCAACCTGCCT
CCCATTGCCCAAGAGAGAGGGCAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTTCTCCCTGGCCTCCAGTGCCCCACAGGAGGATCTGCGCACG

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FIGURE 5705B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCCTGACCAC
CACTGTGCCCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

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FIGURE 5706

AGGCTACGGTTCGCGCCAGCGGCCGGCGCT**ATG**GGGCTGAGCCGCGTGCGGGCGGTTTTCTTTGACTTGGACAAC
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAACTCAGCAAGGAATGTTTTCATCCTTACAAT
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA
AAATTGGCTGAAGAATGTTATTTCTTTGGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA
GCCATGCTTACTGAACCTCGAAAGGAGGTCCGCTACTTCTATTAACGAATGGGGACAGACAGACCCAGAGGGAG
AAGATTGAGGCTTGTGCTGTGAGTCTATTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTCCGTGACACA
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAATGGAATAGTG
CCACTGAAGTCTCTCCCGAGTTCGCTTACATGGTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA
GACTGCAAAGTCAGTATGTCCACT**TAA**AGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAATAATTTTACTTATGATTTAATGG
CCAATATTTTGAAGGTCTTCCAACCTATTGCTTCTAAGTTGTAACAACCAACCATTGAGTGGTACTTATATCT
GAAATTCAGATTGCATGAATTCAGGTCAGTAGTATAGCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT
GTATCTGGAGCTTTTTAAATATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTAAAAAATAGATTTTCTAAAA
CACAGATTTATGAAAGCAAGTGAACTGGTTAATATGAAATAAGTACTAAGTCACATGCAAATCAAGGTATTATA
TAGTGAAATTTTTCATATTTTGAAACATAAACCATAGTTTTTGCCTACTTTGGATGTATACTTTCTTTTAT
GAACCTGATTTTTCTGTATGACATTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTCTATGGCATGTGACAGA
TTCCTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGCTCCTTTACCGTGACATTTTCTCACCTGTGCACA
GTGAGCCGGTAGCTTCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTCTTCTGTGG
ATCCATAAGAGGAACATTTCTCAGTGTAGCCTAACAATGCAGCCCCCAATCTGTTCTTTTTTTTTTGAATG
GGATCTCTGTCGCCCAGGTTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCCTGAGCTCAAGT
GATCTCCACCTCAGCTCCCAAGGGTGTGTGTGACTACAAGTACACACTACCACGCCAGCTAATGTGTGTTT
TTGTAGAGATGGGATTTTGCCATGTTGCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCTCCACCTCAG
CCTCCTAAAGTCCTAGGATTATAGGCATGAGCCACTGTGCCTGGCCCCCTCATCTGATAGAAAATTAGATTTTGC
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTTAGAGTTACCATCTGCCTTAAATTTCT
CTGTTTTTCACATTTCTTGAAATATATCATGTTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT
AATAATTAATGGCTACATAGCAAGGCATCGCTTGGAACCGGAGAATTTTCTTAGACTATTAGGCTAGACAGTC
TCATGATTATACTAACCACCTGGAGTAAAGTGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT
TAATAAATATGA

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FIGURE 5707

MGLSRVRAVFFDLNLTIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH
WEEAIQETKGGGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTELRKEVRLLLLTNGDRQTQREKIEACACQSY
FDAVVVGGEQREEKPAPSIFYCCNLLGVQPGDCVMVGDITLETDIQGGLNAGLKATVWINKNGIVPLKSSFPVPHY
MVSSVLELPALLQSIDCKVSMST

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FIGURE 5708

CTTCCTGTTGCCTTAGGGGAACGTGGCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC
GGAGCTGGAGTCGGATCCCGAACGCACCCTCGCCATGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCGCTTCCACGCCCGAGGGCATCGCGCTGGCCTACGGCAGCCT
CCTGCTCATGGCGCTGCTGCCCATCTTCTTCGGCGCCCTGCGTCCGTACGCTGCGCCCGCGGCAAGAATGCTTC
AGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT
CTACCTCTTTTCAAATATTCTCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT
CCTGGCCCTGTCCCACACCATCAGCCCCTTCATGAATAAGTTTTTCCAGCCAGCTTCCAAATCGACAGTACCA
GCTGCTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTGACACCAAGGACCTGGT
GTGCCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACAACCTTTTGG
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATCCTGCTGGGCGG
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCCTTCGAGGCACC
AATAAAATTGGTGTTCCTCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTGCCATGCTGGGACTTGG
AGATGTCGTCATTCCAGGGATCTTCATTGCCCTGCTGCTGCGCTTGACATCAGCTTGAAGAAGAAATACCCACAC
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCCTTACCATCTTCATCATGCACATCTTCAAGCA
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCCCTGCATCGGTTTTCTGTCTGCTGGTGGCGCTGGCCAAGGGAGA
AGTGACAGAGATGTTTACGCTACGAGTCCTCGGCGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCGCA
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGAACAGA
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA
GACAGATGGGGGCTGGGCCCACACAGGCGTGCACCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCCTCTGTGGCCTCTGTTTCCTTCTCCCTTTCTTGGCCCTCCTCTG
CTCCTCCCCACACCCTGCAGGCAAAAGAAACCCCACTTCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT
GTGATTTTTAGATTTTGTATTGTGGACTGATTTTGCCTCACATTAAAACTCATCCCATGGCCAGGGCGGGCCAC
TGTGCTCCTGGAA

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FIGURE 5709

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLL MALLPIFFGALRSVRCARGKNASDMPETITSRDA
ARFP IIASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK
EEIINYEFDTKDLVCLGLSSIVGVWYLLRKHVIANNLFGLAFSLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESNPKDPAAVTESKEGTEASASKGLEKK
EK

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FIGURE 5710

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTTCGCTTTGCCCATTCGTTCAGCCAGTCGCC
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA
GACAGCGAGCGGTGCGGGCGAGGTGGTGCCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGGG
CGCCGGGGCGCGCTGCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA
CTCACGCCTCAAGGAGCTGGTGGCCACCCTGCCCCAGAACCACAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCGGGGGCCGAGGGCT
GCCGGTCCGGGCTCCGCTCAGCACCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA
CCACTAGATCATCCTTATACCGACGGGGAAACGGAGGCCAGAGAGGGCGTGGGCGCTTGACCACTTCCGTCCCA
TCCTTGCGGGTACCTGGCTATGCGGGGGTGCCTAAGGAGCCTGGAAAAAGCGCTCCCCCGTCGTCTTCCTGGGG
AAGGGGGCGTTGCTGCGCTCGGAGCGGCGTCCCTTCCAACCGCCGGTCTCATTCTCTCGTTTTACAGGGCG
GCATGCGTTCTGCGGACGATCGCATCTTGTCGCTGAAGCGCTCCCCCAGGGACCGGCGACCCAGCCATC
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGATCTGAGGGAGAACAAGACC
GATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGAGGGCGCTC
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTATTTTTTGAAG
CAGACATTTTAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATTACAA
TGATCACCAGCTGAAAATATTGTTTTACAATAGTTCTGTGGGCTGTTTTTTTGTATTAAACAAATAATTTAGA
TGGTG

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FIGURE 5711

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR
LKELVPTLPQNRKVKVEILQHVIDYIRDLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEACVPADD
RILCR

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FIGURE 5712

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCACCCTA
GTCCCTTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCCAAGACAGATGCCCCAGAGCTGTT
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCCTCATGGTGGGT
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCTCCCCA
ACCCCCACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG
TGTTTACTCAGTG

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FIGURE 5713

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGGGTACCGGCGG
GCATTGAGTGACCTGACATCCCAGCTCCACATCAGGAGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAACTGGGGTGCATTGTGGCTTTTTCTCTCTCGGCGGGGCACTGTGCGTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTGTGGAATCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAATGACAGACACTGACCATCCACTCTACCCTCCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCTTACCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAGAACCTCTTCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCTTTCCCTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTCAGCACCACCCTAGTCCC
TTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGC
AGATCTGTGCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCTGGCCAGGAGCTCTTC
AGGCTTCCCTCTCTCTCTGCTCCACCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATCCTTGTGAAGATGATAIACIATTTTTGTTAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGAGTGCGCGTGACGTGGAGAGCTGGTGGCCGAGATTGACGGCCTGATGCTCC
CTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCTCCCCAACCCCT
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTTCAGTAATAAACTGTGTTA
CTCAGTGAAAAA

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FIGURE 5714

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 5715

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGAGTTTGAACGGCTGAAGTTCACCTTCCAGCCCCCTAGCGC
CGTTTCGCCCGCTAGGCCTGGCTTCTGAGGCGGTGCGGTGCTCGGTCGCCGCTAGGCGGGGCAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGCGACAGGATTTTGCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTTCTTGATACATATTGCCAGACTTCAAGATTTAGAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAGTTAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTGGAGAATAAGTTACTGGGGAAGAATGGAACCTGGAGGGCTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTCACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCTGTAATCATCGATGAAATTCTACCTCTA
AGAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTTGATGCCACCTGCAAAGCAGAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTCAACCAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAACAACATCTTAAGAACCAGGAGGAATATAAGGAAGTGAAC
TTACATCTGAACTACGAAAGCATCCTTCATCTCTGCGGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCTTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCTGTACTGCAAACCAACACCGTGCACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACCTG
ATCCCAAGAACTTGAAGGTGGGCCATCTTGCCCAAGAAACCACCTGTGAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAATTGAGAAAAGAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCAGACCTTGCCCTACTAAGATTTTGAAGATGTTGTGGGTGTTCTGAAAAGAAGGTACTTCCAATCACCG
TCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCCAACAAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCTTTTAAGCCCCAATCCCAGAGGCAAGAACTG
TGGAATATGCCCTTTCTCGTTTGATTCTCGAGACAAGAACGTCAAGTTACAGAAGGAGAAGAAAATAAAGAAC
TGCAGAAAGGGGAGGTGCCAAGTTCAAGGCATTTCCCTGTCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACAGCTGGAAGAAGAAGTGAAGACAGCAGAAAGAAGCAGCTTGTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGGTTCTCTAGTTCAAG
AACCTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAAGTGGTGATAAGGCAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACAGCCCTC
TGACTGTGCTGTATCTCCCAAATTTCTCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTGATTGGGCATGGAGAGAACCCATTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATATTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCTTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTGACGACAGTGAATCT
CTATTGCTATTGCCCTTACGACTCTCACCTCTCCCCACTTTTTTTAAAAATTTTAAACCAGAAAATAAAGATAG
TTAAATCCTAAGATAGAGATTAAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACAGTGAGGAA
GAAGACTGCGTGGATTCTATGGGGAGCCTCACAGCAGCCACGAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGTTGCTGATAACAACAGGGAACCGTGCAGTGTGATTTAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5716

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPRRSLRLSAQKDLEQKEKHHVKMKAKRCATPVI
IDEILPSKKMKVSNNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRDTERIKQHPKNQEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTTEPIGFDLEIEKRIQERESKKKT
EDEHFEFHSPCPTKILEDVVGVPKPKVLPITVPKSPAFALKNRIRMPKEDDEEEDPVVIKAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDITINLPEKKVKNVTQIEPFCLETDRR
GALKAQTWKHQLEELRQQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEQKKEELARLRRELVHKANPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC

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FIGURE 5717

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCCGGCCA
GC**ATG**CAGCAGCAGCCTCTGCCCCGGGCTGGCGCCCCACAACCTGAGCCAACCAAGCCTCCCTACAGCTACATCG
CCCTTATTGCTATGGCCATCCAGAGCTCACCGGGGCAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG
GCCGATTTCGCTTCTACCGCCACAACCGGCCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCTGACTGCCACG
ACATGTTTGAGCACGGCAGCTTCTACGCCGCCGCCGCCGCTTCACCCGGCAGACAGGTGCTGAGGGCACC CGG
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCAGCCAGGACCCAGGAGTCCCCAACGCCACGACCGGCA
GGCAGTGCTCATTTCCACCAGAGCTGCCAGATCCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG
CCAGTATGTGCCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTTCCACGCCCAAGC
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCTCATGCCCAGCGTTTGGCTTTCCTGCCGGCTTCT
CAGAGGCTGAGAGTTTTAATAAGGCCCTACGCCCGTCTTGTCCCCGGAATCAGGCATCGGGAGCAGCTACCAGT
GTCGGCTGCAGGCACTGAATTTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT
CCCCTGCAACCACCCACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCTGCCAACTGACCACAAGGAACCCCTGGG
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATAACCGACGCCAG
GAATGTTCTTCTTTGAG**TAA**AGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCCCTCCGGGCTGAGCCT
GGCTCTAGGACCTGAAGAACTCTCGAAGGACCCAGCCCTGGTGAGCCAAGGACAACCACACAGAAAGCCAGGATT
GAAGCGGTGCTCAGCCAGGCCCCTGGGGCTCCGGACAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT
TACTCTGTGGCTCTCAGGGCCAATAAAGCCATGTGATGATG

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FIGURE 5718

MQQQPLPGPGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC
FVKVPRDDRKP GKGSYWTLPDCHDMFEHGSFLRRRRRFTROTGAEGTRGPAKARRGPLRATSQDPGVFNATTGR
QCSFPPELPDPKGLSFGGLVGAMPASMCPATTDGRPRPPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS
EAESFNKAPTPVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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FIGURE 5719

GGCACGAGGATCCCGGGGTCGCGGAGAGCCGCAAGCGGAGTTGGTGGGCGCTATGCTATCACCCGAGGCAGAGC
GAGTGCTGCGGTACCTTGTAGAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA
TGGTTTGCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC
ATCTGGATAAAGAAATAGAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTTGAGGCCCAAGGCA
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCACTTTGAAAG
GATGAGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCAGGGTCATGGAGGACCCAGGACCCTCCAACCTTG
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTGAGGAATCTGGCCATGAAAACCTCTTTGTAGTG
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTACATGGACCCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG
AGTGGAGTGTCAATCCAGCATTCCTCTCAGAAGGGAGAGAGGTTTTCAGGCTGGTGCCATGCGATTGGAATAAAG
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCACAGCCATCTGTGGG
GCAGGCACACACACCTCCCGCCAGCTCCAATTTGCACTTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGCAGAGTCTGCAACAGGCCTGGGTGAGTGGATGCGC
CTCTTACCATATGACACGTGTCAAGATGCCCTTCCGCCCCCTCTGAAAGTGGGGCCCGCCAGCACTGCTCGTTA
CTGTCTGCCTTCAGTGGTCTGAGGTCCCAGTATGAAGTCCCGTGAAGTCAAACTCTTATGTGTTTATTAAAGGC
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5720

MLSPEAERVRLRYLVEVEELAEVLADKRQIVDLDTKRNNREGLRALQKDLSEDMVCFGNMFIKMPHPETKE
MIEKDQDHLDEIEKLKQLKVKVNRLFEAQGKPELKGFNLPINQDELKALKVILKG

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FIGURE 5721A

CCAAGATGGCGACGGCGATGGTGAGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCTGCACTCAGGCTTGTGAAGCCCCGAGTTT
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGGTTCCTATTCTACTTTTGGTCTCCGCC
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAACAAGCGCCTTCTATGTGCCTGGGGT
CGCGCCTATCAACTTCCACCAGAACGATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAAGCCAGCT
ACCTTATGAATACTATTCACTGCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG
CAGCCAGTCCAACAAGCCAGTGACCCTGACAGTGGAGCAGAGCCGACTCGTGGCCGAGCGGATCACAGAAGACTA
CTACGTCCACCTCATTGTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT
GCACAACCACCTCTCATTATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACAGTACCGTGT
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCGTGCACCTCT
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACTACTCTGT
CCACTGGGAGGAAAGTGATATCAAAATGGGCCTCTCGCTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA
CTGGTTTTCTATCATTAACTCCGTTGTTGTGGTCTTCTTCTGTGAGGTATCCTGAGCATGATTATCATTCCGAC
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAAGTT
GGTGCACGGCGACGTCTTCAGGCCCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTGCGCCCTCCAGCCGGGGAGCTCTCAT
GACCACAGCTGCTTCTCTCATGTTTATGGGGGTGTTTGGCGGATTTTCTGTGGCCGTCTGTACCGCACTTT
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT
CGTATTGAATTGCTTCATTGGGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGCTGTG
CATGTGGTTCCGGATCTCCCTGCCCTCGTCTACTTGGGCTACTACTTCGGCTTCGAAAGCAGCCATATGACAA
CCCTGTGCGCACCAACCAGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTTGTGGGCATCCT
CATGGCTGGGATCTTGGCCTTCGGCGCCATGTTTCATCGAGCTCTTCTTCATCTTCAGTGCTATCTGGGAGAATCA
GTTCTATTACCTCTTTGGCTTCCTGTTCTTGTTCATCATCCTGGTGGTATCCTGTTTCAAAATCAGCATCGT
CATGGTGTACTTCCAGCTGTGTGCAGAGGATTACCGCTGGTGGTGGAGAAATTTCTAGTCTCCGGGGGCTCTGC
ATTCTACGTCTGGTTTATGCCATCTTTTATTTTCGTTAACAAGCTGGACATCGTGGAGTTCATCCCTCTCTCCT
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA
CATGTTTGTTCGCAAGATCTATGCTGCTGTGAAGATAGACTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC
CTCGGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCCTGCTCGTTTGAATGTA
ACTCCTGGCAGAGTGTTCCTGGATCCTGGGGCTGCGTGGGGGGCGGGAGGGCCTGTAGATAATCTTGGCTTTTTC
GTCATCTTATTCCAGTTCTGTGGGGGATGAGTTTTTTTGTGGGTGCTTTTTTCTTCAGTGCTAAGAAAGTTCCCT
CCAACAGGAACCTCTCTGACCTGTTTATTAGGTGATTTCTGGTTTGGATTTTTTTTCTTCTTTGTTTAAACA
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCCCTCAGGGCTGT
TGGCCACCCTATGACTAACTGGAAGAGGACACGCCAGAGCTTCAGTGAGGTTTCCGAGCCTCTCCCTGCCCATCC
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCCCTCAGTGCCAGCCAGCCTCTGCCAGACC
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTATCT
TTTACCAGGAGCAAACCCAAGTCTTAGTTGCTACAAGAAAATCCCCTGGAAGTACTGGGGGCCAGGTTCCCCAG
ACAGCAGGAATTGCCCTGTTCAGAGCAGCCGGAGTTTGTGTTGACCAAGGAAGAAGAGAAGAGACTTGCAGTG
AACTGTTTTTGTGCCAAGAAACCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGTCT
GGGAAGGGATGGCCAAGGCCGCTAGGGTCTTACCCCTCAGGATCACTCCCCAGCCCTTCTCAGGAGGTACCG
CTCTCAAGGTGTGCTAGCAGTGGGCCCTGCCAACTTCAGGCAGAACAGGGAGGCCAGAGATTACAGATCCCC
TCTGTAAAGTGGCCAGGCAATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCATACTCACTTCTTTAGCCAGCCCC
ATCCCCCTCCACCCACACCTGAGTTCTTGCCCTCCTCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG
ATGGAAGGTAAGTTCTGTCTGTTCTTTCCCAATCCCCAGGAATGGACAAGAAGCCAACCTTAGAAAGAAGGGTCTC
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTTCAACCTCTGCCACCCGTGCATGTCATCAAAACA
TTTGTCTTAAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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FIGURE 5721B

GCCCTTGTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCTCACTG
CCCCACATTCTCCAGTGGCTCTACCAGCCTCAGCATCAAACCAAGTGAATTTCTCAATCTTGCCTCACAGTGAC
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG
TCTTTTGTTCATTCAAATCTGGATTTTTTTTTTTCCCTAAGAGATTCTCTTTTAGGGGGAATGGGAAACGGAC
ACCTCATAAAGGGTTCAAAGATCATCAATTTTCTGACTTTTAAATCATTATCATTATTATTTTAATTAAAAA
AATGCCTGTATGCCTTTTTTTGGTCGGATTGTAAATAAATATACCATTGTCCT

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FIGURE 5722

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYSLPFCQPSKITYKAENLGEVLRGDRIVNTPFQV
LMNSEKKCEVLCSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGY
RLGFTDVNKIYLNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP
TKENQLYFTYSVHWEESDIKWASRWDTYLTMSDVQIHWFISIINSVVVFFLSGILSMIIIRTLRKDIANYNKEDD
IEDTMEESGWKLVGDVFRPPQYPMILSSLLGSGIQFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVF
GGFSAGRLYRTLKGRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVFPPTMVALLCMWFGISLPLVYLG
YYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFVGILMAGILPFGAMFIELFFIFSAIWENQFYLLFGFLFLVFI
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLLYFGYTALMVLSFW
LLTGITIGFYAAYMFVRKIYAAVKID

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FIGURE 5723A

ATGGCCCCGACCGCCGCGCCACTACCGGGGCGCTGAGGGGGCCTGGCGGAGCCCGAGCGCGGCCCGGCCCGCAGCGTG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACACATTTTACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCCCAGGCCTCGGGGCGGGGA
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTTGGGAACACCTTTCTCAAATGGGGAGAAGCTGAGGCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCTTAACAAAGAGGCCCTCCACTGCTCTGAGTGCGG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGACAGACCTTTGAGAGTACCCAGGCCCTGCTAGAGCACCTGAAGGCCCACTACGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGCGGTTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGCACACAGGCCGTAAGGACTTCCTGTGCCAGTACTGTGCCAGCGGTTTGCCGTAAGGACCA
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGGACATGTTAGG
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCATGGGCATGTATGGTGCCACATCCCTACCATGCCAGCAC
GGGCGTGCCACACTCCCTGGTGCACAACACGCTGCCATGGGTATGAGCTACCCCTCTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAAATACCAGCTTGGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGA
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAAGAGCCCGCCAACTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTTCTTCCACTCAACCTGCCCCGTGTAACCCACCTGGGGC
CACAGGAGCCTGGTCAATGGGCTACTCCAGGCTGAGGCACAGCCCTGCTTACCCTTTGCAAGCTCAGCCTCA
AGATTCCCCAGGAGCTGGGGGACCACTGAACCTTTGGGCTCTGCACTCCTTGCCCTCTGTCTTACGCTGTGGCCT
GAGTAGCACCACCTGCCTCGTTTCCATCAAGCATTCCAGTAGCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC
TCTGTTATGGAGCCTTAGTACCCACCCGCTGTGTGCCCCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA
AAAAAAAATTCCAGTGTCTGTATACAGGAGCACTTGGTTTGGGGGTTGAGGCTTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAAAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGACC
TGAATCGGGAGCCACACTTGGCCCTCTTCTCTCCTCAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCAAGAAGCCACCTTCTGGTCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCACTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGCAGGAGAGAAGGCCTTATTTCTCGCCACCCATTCTCTGTACCAGCACCTCCGTTTTAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTACCTCCCTTGCCAAGCTGTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCATTTGGTACCTGGTGTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTGCTGACTTCTTTCAT
TTGAGGTCACATTTTTCCCCGTGGGGAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCATTTGTTCTGCTGCCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCAGGGTCT
GCAATTCGTTTTTCTCCAAGTACATTATGACCCCTCATCCTTCTTGAAGTGGAGAGGGGAAGAAATGAAAG
GCATGCCACGTCGGTCACCTCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCTCATTGGTCTTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTGGAAGAAGAGTTTGCAGAAGGTTAGGAATGGGTAGATAGCTAAGTCCTAA
TCTATGGGTACATTGTTGTGTCCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTGTCTCTCCATCAAACTCACTTCCACTTCTCTGTGCCCCACCCCC
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTTCTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGACACAGCCCTTGCTGGAGCCCAGGAACCCATCCTTGCTTCATCTCAGTTCTTCATGG
GCTTCACTCTTCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCTTGAGACGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCTCATGCTGACTTCTCCAGTAGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCCTAC
CAGTCTCTCCCTACCCACCTTCTGTCTAGGTTCACTTGGTTTGTCAATCAGGAAGTGAAGAGGTCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTTGTTTGGAGTAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 5723B

GAAGCAATTGGAGTAAGTGTGTTTTGATTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG
TATTATAGGTGATGGTATGTGAGAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT
CACTAGACTCAGCAACCCTTCTCACCTTAAGTCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAATACAAAGTCCCGGGCTGTAGAGGAGTCCTTTCTCTCTGCCTGCCCTTTCTGTCCCTCCCT
CGAATTCTCTCTCCCGTAAGTGATGCTGGAAAAGTCATAGGACTGGCAAAGCAACTGTTTAAACCTTTGTAAAC
CGGGGCCTTGCCCCACCTCCTGTCTTTTCTCCTTGCCTTCCCCACTCCTGTGTCTCCCATCTATCCTGTCTTT
CCTTTCTCTCTCAGTGTCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACCTTTGCTGGTACAGAGGAA
TAATATCTGCCTTACCTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCTTAAATCT
GGGGGGTCGGGGGAAAGAAAAAAGCCTTAGTGGCTGGTTGTTCAAAGGATAAGAATAGCTTTATCTTGCA
CTCAGTACCCGAACCTCACTTCACTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCAGGACAGGAGC
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGATGTCCCTTTCCCTGCCACCTCCAGCCTCT
GCCAGCAATGAGCTGTCCCCCTCCACCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCTGGGGGTAAGGGG
ATGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAGGAGCGCCAATG
AGGTTCCCTGCAACCCCGCCCTCCAGCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAATCCG
GGAAGCAGGTGTGATTACTTTTTTGCTCGTAGATATTGCTTAAGTTGGAATTCTCCCACTGCCCTAAAACCTTC
CCTAGTAGTCTTTAAACTCCCCCTCCCTTTTTGGTAGCTGTTTTCTCCGTCTCTCTCCACCTGCCCTCTTAT
CTAGGAGCTGTTTGAAGCACGATTTTTTAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTAACAAGG
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCACCC
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT
GGCGAGGGAAAAGGGTGTTCACCATGATAACCTAGTGCCTCCATAGAGGGGTTTGAAAAATCCAGTCCGATT
CTTTGTGTGTGAGCTGACTTCCTTAGCTGATTGTTCCCACTTGCACCTCTCCACCTTTGGCACTAGAAGTCCCTGA
GACACCACTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACTCCAGATTA
TTTAAAGAGAAAAGTACAAGACAGAAATCTCTAGCACTTTGTAAACACAGTGAATAACCTCTGGAGTATTTTT
GGCTTTATATAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTA
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATTA AAAAC
TTCTGAATGATG

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FIGURE 5724

MTTFFTSVPPWIQDAKQEEVGVKLVPRPRGREAESQVKQCEISGTPFSNGEKL RPHSLPQPEQRPYSCPQLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLG YRRHLAMHA
ASSGDL SCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKDVRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVS VKEELSPVLCMASRDVMGTKAFFGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASPQPA AAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGLVMGYSQAEAQPLL
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 5725A

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCTCGGGCCGACATGGGCGCCGCCGCTGGGCACGGCC
GCTGAGCGTGTCTTTCTGCTGCTGCTTCTGCCGCTCCCGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTTA
CCTGCTCTACTGCCCTGCGATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTGCAAA
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAAGCCTCCTTTACCAACCTCCA
TGTGCTCTACCAGAAGTACTTCAAGCTGGAGCCCTCCAGGCTTACCATCGGGTCATCAGCTTGAGGATTTTCAT
GGAGAAGCTGGCACCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTGAGGTGGCAGCCAGCGAAG
CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCATTCTGGGATCAGTTTCATGTGAGTTT
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCC
AAAGGAACATCCGGTGCTTGGCTGCCAGGAGCCCCAGCCAGTTCCCCGTCTAGAGGAACACAGGCCACTACA
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCACCTTGTCGGGCCCTA
TGTGGGCATTTCATCTGCGCATTTGGCTCTGACTGGAAGAAGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC
GCATTTTCATGGCCTCTCCGCAGTGTGTGGGTACAGCCGACAGCAGCGGCCCTCACGATGACTATGTGCCT
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTGCTGGATGCCAGTCGGTCTACGTTGC
TACTGATTCCGAGAGTTATGTGCTGAGCTCCAACAGCTCTTCAAAGGGAAGGTGAAGGTGGTGAGCCTGAAGCC
TGAGGTGGCCAGGTGACCTGTACATCCTCGGCCAAGCCGACCACTTTATTGGCAACTGTGTCTCCTCCTTAC
TGCTTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCCGTCTTCTTCTCGGCATGGACAGGCCCTTAAGCT
GCGGGACGAGTTCTGATTCTGGCCGGAGCACCAGACCTCTGATCCTGGAGGGACAGAGTCTGAGCTGGTCCTT
CCAGCCAGGCTGCGAGCCAGAGGTGCTCCGGGATTGCAAACCTCTTCTCACCTGCCAAAGATGGAGAAGAGT
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCAGGGCATAGGACTTGCAGGTTCTTAGGAGCAGGAGCA
TCTCCCATCGCAGGTGCTTTCTGCTCTTCTGGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGCTTCTGG
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACCTTTCAGAGAGATTTTTTATAGAGAGATTTCTATAATTTT
GATACAAGGTGATGACTATCCTAGAACTCTCTGTGGTTTTTGAATTCATTGAATTCATTAATGTAGGTACCTA
AAGTGACCTTAAGTGAATGTGGATGAGGCTGGGGCTGGTGTGGGTCTTTTGGCTGCTTTTCAAGGTGCCCCAA
TGTGGCCCTCAAGAGCCATCCCCACTGCCTGGCCAGAGCCATTGTTGTCCCCTACTTCTAGGCCATTTCTGGGG
CTTGGGGGATGAATGCTGTCTGTCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGTGTGCGAGCGC
TCTGTGGGCGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG
CCCCAGTGGGGCTTGGTTGGTAGAATGTTGGCATTTCGGTTGATATCCAAAGCCTGTTCTCCAGCCGTCTCTCTG
CAGCTGGAGCCTTCAGGCCGATTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCACAGAAGATGCCAGGG
CCCAGAAGCCATCAGAATTATCAGTGGAGAAGCACCTTTTGACTCTTCCCTTCCAATGTAATCTCTGCCAACACC
ATGAGGCTTAAGGTGCTCTAAGTCATGAGTGTGTTGGTCTCAAATGCTGCAGTTTTAATAATCTGTGACTCCTGA
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAAATTCCTTGTCTGACCCCTGTAGATCTTTTCTTGCCATGTCA
CCTCCCTTGGCCTTGTATCCTGGAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCTT
CTTCTTGTGTTTACCTGTGGGAGGAAACACTTTTTTGTGAGGGGAGCCTGGTTTTCAGAGCTCAGAGGTCACACTG
TATCAAAGATCTCAAACAGCAAAGTCAGCATTGCTGTATAGAGCTGCCACCAACTTAAGCAGGAGAACTGT
ACAGAAAGGGCTTTGCTATTTTTCCCTTTTGGGAAAACAATGAAGTGTGTTAAGTCCTGGGTGGACTGAGAGATG
GTTTGCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG
CCACCACTAGGTTGTAAGCCTGTAGCTGGCTGGCTGATTTCAATTTTGGAAATTCATTGGCCATCCACAGCCTTACA
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA
ATCACTTGTGTTCTGAAAGAAAGGGCACCAGAAGTTCTAGCAAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT
TCCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA
AGCATGTATATAAGAGCACGTTGTAACTTGAAAGAGACAAAGGCACAAATGTGGCTGTTGATTAATTTGACTGC
TTCTCGTTGCTCGTCACTCCATGCCAGGCAGTGTGCTGCTAATTGCTTTATGGGGGCACTCTCTTATTTATTC
CCCAGCCCTGGGAAATAGGAGCTGTCAATTATCCTTCTTCTGTCACAAGGAAAATTAATGCCCTGAGAATTGT
CATAATTTTCCAAGGCTGCCAGCTGGTGGTGTAAAGCCAGAATTTGACCTCCCAGAGCCAGTTTCCATTAGCT
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACCTTTCTACCCTGTGTGCCATGGAGACCTCCTATGGAAAAAT

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FIGURE 5725B

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA
AGTCTTTGTTCTCAAGGAATTTGCATTCTAGAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG
TGCTATAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC
TCTCTGAAGAGCTGTCATGAAGGAGGGAGGAGCACATTCTGGCAGAGAAAACAGCACGTGCAAAGGCCCCGAG
ACTGGAGTGTGTTCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA
GCAGGTCAGAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGCATGAGCTGATTACATTCTGAAGGACCTCTCTAGCTGGCCA
GTGCTGAGGAGGTTGGAGAGAGAAAGGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTTAACAGGGTTGCAGGCCA
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGCCTCCTCTCCAAGAGACAAAGGCCATTGCATT
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTCAGTCTTTTCAAAGATACAAATATTTA
CATAGTTTAAATCATGTAATATATACAATTAATGTCCTAGTGTTTTACTTAATAGTGTATCATGTTTTCCCTGT
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATTCTGTGAGGAGTGTTCATAGTTTATTGTTTTCC
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGCAGGCCGAGGTGGGCAGA
TCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA
TAATAATAGCCAGGCGTGGTGGCACATGCCGTGATTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA
TCTCAAAAAAAGGAGACTTCATGTGCCCCCAATTTTCTACTATTGTTATTTGAAAAAATATTTTATTTGTAAG
AGTTTTTCTTTATTTAAAAATGTTTATTAAAGTTGTTGGACGGGAAGCAAAAAAAGTTGTTTAAAGATAA
ATTCCCAGAAGTGAATTTGTTAGATCAAACACTTAAACTTTTTGTTATGGAAGAATTCAAATATAAATAAAAAA
TTGTGAGTAATAAAATGAACCTCACAGTTTCAACAATGACCCAC

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FIGURE 5726

MGAAAWARPLSVSFLLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP
FWDQFHVSFNKSELF TGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQYMWVWSDVMVKTGEAQ
IHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMASPCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS
LDAQSVYVATDSESYVPELQQLFKGKVKVSLKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF
FGMDRPPKLRDEF

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FIGURE 5727A

ACCCACTCCCGCTGCCCGCTCCGGCCCGCGCCGCTTCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGAGCCCG
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTCCGGCGAGCGGGCGGCAACGCTGCC
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCAAGTAAACCTAGCTCGGCGATCGGCGCCGGAGATTTCGCGAGCCCGAG
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCGACCCGCGGCTCCGCGGCCAGCCGCGCCCCAG
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA
GACTCGATCCTCGTCAACGGGGCCTGCAGCGACCAGTCTCTCGACTCGCCCCCAATCTGGAGGCTATCCGCACC
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG
GACTTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA
ACCAGGACTCGTTTCAAGAGCCAGCTGTCCGAACTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG
CCTTCCCCACGTTCCACCCGAGGCGCGCAGGGCCGCAACCATGTGGACGAGTCCCCCGTGGAGTTCCCGGCTACC
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCCTCCAGCTCTTACCTTACCATC
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCGCTAGCCAG
GACAGCCAGCAGGGGGCATGGAGTCCCGCAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTCAGAGTATCAG
GATGGGAAGGAGTTTGAATAGGGGACCTCGTGTGGGAAAGATCAAGGGCTTCTCTGTTGGCCCGCCATGGTG
GTGTCTTGAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTCAGCCAGCACTTTAATTTGGCCACCTTCAAT
AAGCTCGTCTCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGGAGCTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCACGGGGGCTTCAAGCCCACT
GGGATCGAGGGCCTCAAACCCAAACAACACGCAACCAGTGGTTAATAAGTGAAGTGGCTCGTGCAGGCAGTAGG
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGC
CCCGCACCCAAAGCGCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA
CAAATGGCTTCAGATGTTGCCAAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGTGGCAGGAAAAACCCC
GTGTCTTCCACCTCTCTTTGAGGGGGGGCTCTGTGACACATGCCGGGATCGCTTCTTGAAGTGTTTTACATG
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTGCAGCAACAG
AGCTGCTGCCGTGTTTCTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGGCCGAGGCCAAGCTT
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTGCGCGCCGGAAGGACTGGAAC
GTGCGCTGCAAGCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCAAGCTGTACCTGCCATTCCC
GCAGCCCGAAGCGGCCCATTCGAGTCTGTCTATGTTTATGATGGCATCGCGACAGGCTACCTAGTCTCAAAGAG
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCAGAAAGAAAAATATTGAAGAATGGGGCCCATTTGAC
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA
GGCCGGCTCTTCTTGAATTTTACCACCTGCTGAATTACTCAGCCCCAAGGAGGGTGATGACCGGCCGTTCTTC
TGGATGTTTGAAGATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTCACGGTTCTTGGAGTGTAAATCCA
GTGATGATTGATGCCATCAAAGTTTCTGCTGCTCACAGGGCCCGATACTTCTGGGGCAACCTACCCGGGATGAAC
AGGCCCCGTGATAGCATCAAAGATGATAAACTCGAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAAGTTA
AAGAAAGTACAGACAATAACCACCAAGTGAAGTCAAGTCAAGCAGGGGAAAAACCACTTTTCCCTGTTGTCATG
AATGGCAAAGAAGATGTTTTGTGGTGAAGTCAAGTCAAGGATCTTTGGCTTTCTGTGCACTACACAGACGTG
TCCAACATGGGCGGTGGTGGCCGCCAGAAGCTGCTGGGAAGGTCCTGGAGCGTGCCTGTCTATCCGACACCTCTTC
GCCCCCTCTGAAGGACTACTTTGCATGTGAATAGTTCCAGCCAGGCCCCAAGCCACTGGGGGTGTGTGGCAGAGCC
AGGACCCAGGAGGTGTGATTCTTGAAGGCATCCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTCTATACCGTGTA
CCTCAGTTCCCTCTTGTCTAGTGGGGCAGAGCCACCTGACTCTTGCAGGGGTAGCCTGAGGTGCCGCTCCTTG
TGCACAAATCAGACCTGGCTGCTTGGAGCAGCCTAACACGGTGTCTATTTTTTCTTCTCTCTAAACTTTAAACT
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCTGGGTCTACCACTCAGAGAAACAATGGCTAAGATAC
CAAAACCACAGTGCCGACAGCTCTCAATACTCAGGTAAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG
TTTAATTTTTGAAAAGTGGCTACTGCTCTGTGTTTACAGACGTGTGAGTGTAGGCATGTAGCTACAGGACATT
TTTAAGGGCCCAGGATCGTTTTTTCCAGGGCAAGCAGAAGAGAAAAATGTTGTATATGTCTTTTACCCGGCACAT
TCCCCTTGCCTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTCA
GCAGGGATGACGTCATCATCACATTGAGGGCTATTTTTTCCCCACAAACCAAGGGCAGGGGCCACTCTTAGCT

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FIGURE 5727B

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCCTCCACAGGCACAGGTCCCCAGATGA
GAAGTCTGCTACCCTCATTCTCATCTTTTACTAAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAAC TGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTTCAGAAATGCTGT
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT
TGIGGGGCTTTTTATACACTTTTTAAATCTCAAACCTTCTATTTTATGTTTAACGTTTTTCATTAAAATTTTTT
TGTAAC TGAGCCACGACGTAACAAATATGGGGAAAAA ACTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAAAATCAGTATTTGTCT

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FIGURE 5728

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGTTCTGCCGAGAGCCGAAGATGGCAGTGAA
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA
GTTGAATCTGACAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTCAGTTTATGGACATGCTGTTCCCTGG
CTCCATTGCCCTGAAGAAAGTGAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAATACTACA
AGCAGGTTTTAAGAGAATGGGTGTTGACAAAATAATTCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA
TTTTGAATTCGTTTCAGTGGTTCAAGAAGTTTTTCGATGCAAACTATGATGGAAGAACTATGACCCTGTGGCTGC
CAGACAAGGTCAAGAACTGCAGTGGCTCCTTCCCTTGTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC
TTCTAGCAGTGCAGCTCCCCAGAGGCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT
GGTGCGAAAGAACCTGGTGTGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA
ACTTACTGTTGAAGACTTGGAGAAAGAGAGGGATTCTACTTCGGAAGCTACGGAACATTGAATTGATTGCCA
GGAGAACGAGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGT
GATACCTGATGAAGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA
TTCTTCACTCCAAATCATGTGCTTAACTGTAAAATACTCCCTTTTGTATCCTTAGAGGACTCACTGGTTCTTT
TCATAAGCAAAAAGTACCTCTTCTAAAGTGCACCTTGCAGACGTTTCACTCCTTTTCCAATAAGTTGAGTTAG
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTCACCTGGAAAACAGAGAGGCTGACCGTGGGG
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG
AGAAATGTAAAGACTGAATTGAATTTTAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA
GTATTTAAATATGCTTCCACATTTCAAATATAAAATGTAACATGACAAGAGATTTTGCCTTGACATTGTGTC
TGGGAAGGAAGGGCCAGACCTTGAACCTTTGGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCCTCA
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAGTTGCCCTGTAAAGTTATTTGGTGTGATTGACCAATTG
CATCCCAGCTAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTACGCCCTGAGATGTTACAGTT
GAAGAGCTTGGTTTTTCATTGAGCATTTCTCTATTTTCCAGTTATCCCCGAAATTTCTATGTATTATATTTTTG
GGGAAGTGAGGTGTGCCAGTTTTTAACTAACAACACTACTTTGGGGACTTGCCACATCTCTGGGATTTGAAT
GGGGATTGTATCCCATTTTACTGTCTTTTAGGTTTACATTTACCACGTTTCTCTTCTGCTCCCCTTGCCACT
GGGGACTCCTCTTTGGCTCCTTGAAGTTTGTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT
TTTCGGTATCTGCTGTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACATAATCTCTTTGGAGATAA
AATTCATTAGTGTGTTACTAAATGTTAATTTTCTTTTGGGAAAATACAGTACCGTGTCTGAATTAATTATTAAT
ATTTAAAATACTTCATTCTTAACCTCTCCCTCATTGCTTTGCCACAGCCTATTCAGTTCCTTTGTTTGGCAGG
ATTCTGCAAAATGTGTCTCACCCTACTGAGATTGTTTCAGCCCCGATGTATTTGTATTGATTGTTTCTGGTG
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG
AATTCAGAGGAAAACCCAGATTCAGTGATTAACAATGCCAAAAATGCAAGTAACTAGCCATTGTTCAAATGACA
GTGGTGTCTATTCTCTTTTGTGGCCTTTTAGACTTTTGTGCCCCAAAATTCATTTTATTGGGAACCCATTTTC
CACCTGGTCTTCTTGACAGGGTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATCTGTATTTCAAGAG

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FIGURE 5729

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCAGGTCTGGCATCCTGCACTTGCTGCCCTCTGACACCTGGGAA
GATGCGCCGGCCCGTGGACCTTCACCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC
CACTGCAGTTCTCATCCTCGGCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGTGGGCAG
CCTGGTGAACACCGTCCTGAAGCACGTCTCTGGCTGAAGGTCTACAGCTAACATCCTCCAGCTGCAGGTGAA
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCTGGT
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCAAAGCCACCATCCGCATGGACACCAGTGCAAGTGGCCC
CACCCGCTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCTGCGCATCCAAGTGTGCATAAGCTCTCCTT
CCTGGTGAACGCCTTAGCTAAGCAGGTCTGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGA AAAACCAGCT
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTAGCTCTACCTGGGGGC
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT
GGACAACATCCCGTTCAGCCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA
AGAATTCATGGTCTGTTGGACTCTGTGCTTCCTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA
TGAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTAT
AGACCAAGGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTCCTCCAGTGAAGCCCTCCGCCCTTT
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA
TAACATCAGCTCTGATCGGATCCAGCTGATGAACCTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCCAGTGTCAAT
GGTGAAGGCCTTGGGATTGAGGCAGCTGAGTCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCTCCTT
GTGGAAACCCACCTCTCCTGTCTCCAG**TGA**AGACTTGATGGCAGCCATCAGGGAAGGCTGGGTCCCAGCTGGG
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAAA
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5730

MAGPWTFLLCGLLAATLIQATLSPTAVLILGPKVIKEKLTQELKDHNATSILQQLPLLSAMREKPAGGIPVLGS
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIIVEFHMTTEAQATIRMDTSASGP
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL
SIDRLEFDLLYPAIKGDTIQLYLGAKLLDSQGKVTWFNNSAASLTMPITLDNIPFSLIVSQDVVKAAVAVALSPE
EFMVLLDSVLPESAHLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFPSSSEALRPL
FTLGIEASSEAQFYTKGDQLILNLNNISSDRIQLMNSGIGWFQPDVLKNIITEIIHSILLPNQNGKLRSQVPSL
VKALGFEEAESSLSKDALVLTPLASLWKPTSPVSQ

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FIGURE 5731

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGCTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCGTGGACGAGGACCGCCTGTCCCCGCTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACCAGGGTTTCCAGAGATGCTCACCTTGCTCTGTCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCTCC
CAGCCTGTTTGGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACAG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTTCGGCCCTTTTGCTCTGGGGGTCCCACAAGGCCAGGGCAGTGCCTGCTCCCAAGATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCACTCCCTCTACCCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAAGTGAAGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC
CCAGACCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCTCCAATCTGCA
CTTTGATTGCTTCCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTCCGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCATTCTCCACTTC
CCTTCTCCCTGTCCGTGCCCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCCTCGCTGTTTTGGT
CCTAACTCAAAGCAGATCCAGTAAAGGTTTTTGTGT

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FIGURE 5732

MALAGAPAGGPCAPALEALLGAGALRLDSSQIVIIISAAQDASAPPAPTGPAAPAAGPCDPDLLLLFATPQAPRET
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEEKSRYETSLNLTTRKFLELLSHSADGV
VDLNWAAEVLKVQKRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN
ICTTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSNFQISLKSQGPIDVFLCPE
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLS
PLVAADSLLEHVREDFSGLLPEEFISLSPHEALDYHFGLEEGERDLDFDCDFGDLTPLDF

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FIGURE 5733

CGCGCGAGCGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGCGAGCCGCCCTTTTCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCGCGCGGGCTTCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCCGTCTGTGCCCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCAACCACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCGGCGGGCGGGCGGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACAACAATTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGCAAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCTGGATGCCACCCCCCAGCGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCCAA
AAAAAAAAAAAAA

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FIGURE 5734

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGCTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAAACAAAAGAAGTGGAGCCAGAGCCAACTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTGAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCGGAG
TAGGAACCAAGAAAACTTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAACATCTCC
TTGCATTTTTTGTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTCACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCAGAACTTGTCATTCTAGATGTTCTGTTG
CCAGTATCAAACCCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTT
AAAATCGTTCATAGACTTCTGTAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCCTTCA

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FIGURE 5735

MSGDEMIFDPTMSKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTGPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFAVTGKRAQLRAKAN

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FIGURE 5736

CTGAGGCCAGCCCCCTTCGCCGTTTCCATCACGAGTGCCGCCAGCATGCTGACAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTGAGACCTCGTCACCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGAAGGTAGCGGTGGTAGCAGGCTATGGTGTATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCGCTCATCATCACCAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTCAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACTTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCTCTGCTGGCCGAGGGTTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTCGTGATGAGTA
ACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTCAAT
TCCTGCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCAGTACCTGGGCATGTCTGTGATGGCCCTTCAAGCCGATCACTACCGCTACTGAGAGC
CAGGTCTGCGTTTACCCTCCAGCTGCTGTCTTGGCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCATGTGTTTTGCCATCTAGGCCTTCACCTGGTCTGTGGACTTATACCTGTGTGCTTGGTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGCTATATTGAAGGGCAAAGAGGAACTGTTGTTT
AATTTTCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTAAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTTCGTGAAATCTGCCACCACCTTTATAACCAGATGGTTTCCTTTCA
CAACCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAATCT
TGGTGCCCTGG

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FIGURE 5737

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGISEETTTGVHNLYKMMANGILKVPAINVNSVTSKFDNLYGCRESLIDGIKRATDVMIAGKVAVVAGYGDVG
KGCAQALRGFGARVIITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIPQVDYRLKNGRRIILLAEGRLVNLGCAMGHP SFVMSNSFTNQVMAQIELWTH
PDKYPVGVHFLPKKLDEAVAEHLGKLVNKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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FIGURE 5738

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTGGGATGCCACCAACTGGGGGAGCCTCTTGCAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACTTCCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTCAGCCAGAACGCTGCCTTCCTGGA
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCTTAAA
AGAGGGCATTGCCCAGACTGTGTTTCTGGGCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCTGGCCTCCCGGACCCAGCTGT
GCACCGACATGTTCTCAGTGTCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCTGCTACG
GCCTGGCAGCCCTGCCCGAGTGGTCCAGTGCATTTAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCTGGACAACCCATACCCTGTGTAGAGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCACTTCTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCCACTCC
TGTCAGCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTGT

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FIGURE 5739

MATNWGSLQDKQQLLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYPFTLFP SLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSYMFQRSADGSPALKQIEINTISA
SFGGLASRTPAVHRHVLSVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDISEKGLDQDRRLFVDGQEIADVYFRDGYMPRQYSLQNWEARLLERSHAACPDIAIQ
LAGTKKVQQLSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEDQAI AEALAAPS RFVLKPQREGGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLR
TKAIEHADGGVAAGVAVL DNPYPV

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FIGURE 5740

GGAAGAACCCGCGAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTGAAACAAACATTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCTGAGAATGGCTGAGGAGGCGGGCCGAAAACCTCTCCAGCCTTTCAGACCCCCACTGGCATGCCATA
TGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTTGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTGGAGGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCCTCAACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAAT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGGGATTTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGTACATCTT
CAACACAGAAGCTCACCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGGAATTTGAGAAAACACTGTTAGTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTCACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCTAGACTCCTCATTAACCACTGGATAATTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

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FIGURE 5741

MPFRLLIPLGLLCALLPQHGGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFFDELRLTCDGHDTWGSFS
LTLIDALDILLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKKAGVEVEAGWPCSGPL
LRMAEEAARKLLPAFQPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRL
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLVW
QMYKGTVMSPVFSLEAYWPGLSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIE
SAMYLYRATGDPPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDRMESFFLAETVKYLYLLFDPTNFIHNN
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCRSKFQKNTVSSGPW
EPPARPGTLFSPENHDQARERKPAKQKVPLLSQPSQFPTSKLALLGQVFLDSS

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FIGURE 5742

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTCCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTCTGCTGTCC
TGTGCCACCCATTAAAGTGCAGTTCCTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5743

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRRHGLLPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTENDYVALVHPDLDRTEEILADVLKVEVFRQTVADQVLVGS
YCVFSNQGLVHPKTSIEDQDELSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 5744A

CGTTCGGGCAGCGGCCTCTTGTTACCCGGGGCCCGCTTGCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCGACCCTCGTGTCCAGTAGCCGCAATCCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCCCCCCCGCCCTCGCTCCCTGTGTCTTGGCGGATTTGCACGTAATCTATCCGAAAGCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTCTTCAGGACCCTGCTGAAGTATCGCTTCTCAGCCGCCTTCTCCAG
GCGCAGCTGCATTGCTTCTCGGTTTTTGCACCTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGCTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTGGAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCTGCTGGGCGTGAACACCCCTCTGGCTACCTAGGGACCTGTGGGCCCTACCACCTGGTGCCCTCATGG
AGACAAGAAGCCCTGGGTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAACTCCAGGAGGCCAGCAGAGAC
AAGCAACCCTTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGA AAAACTGACAGTGGACTGGAGCCGGGCCGGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTCGCC
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCCGACGCCACTTCTTGAAATGAAGTCAGCTACTGACAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGCTCTGTTGACCTGTTGTCTGCGCTGACTGTGGGAG
CACAGTCTCGGGAACCCAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGGCTGAACTTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGATAAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGGAGAAGGGGACAAATAGCCCCAAGGCTCTGGTCATGAGAATCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCGTTTCAGTGCTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACTTGTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGCAAAGCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGCATGGCGCTGCGAAGGGTAAATGTGGAGCTTCAGTGCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAACGTATCACTCTTCGGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTTCGAGTTCTGAAAACACCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGCGAGAAATGCTTTGCAGGTTCGACCTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACACTCACCTGGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAGAGAAGGAAGAAATTCAAAAGAACTAAGTGAGTCACGTACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACACTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAAACAAATTTCTGTGATAGAGGTACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCCTGAAGCTGGAACCTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCCTTGGAGCAGCAGAAGGCAGCCCATG
AGAAAGAGGTGAACCAGCTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGGAGAGCTTAGAAAGGGAAAAAATGGAGCTGGAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAAAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACAACCTGGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAGGAGCAGGAGACCCTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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FIGURE 5744B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCC'CAGA
GGCTGGTGGAGCAGGAGGTTTCAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTCAGAAGGAGCTGGAGA
GAGAGAAAGCCAGCCTGACTCTGTCACTGATGGAAAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTCGACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGCAGAGCAGCAGCCCGGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGGCCCTGCTGACTGCTCTCTCCGTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAATACATGAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCCAGGTGGAACACCTGCAAGCAGCTGTCTGTAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAACTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAACTGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTCAAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAAATGATTGAGTCCCAGAGAGGACAGGTTTCAGGACCTGAAAAAGCAGT
TGGTTACTCTGGAATGCTTGGCCCTGGAAGTGGAGGAAAACCATCACAAGATGGAGTGCCAGCAAAAAGTATCA
AGGAGCTGGAGGGCCAGAGGGAAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCGTTCTGGCAAGAGAGCTGCAGG
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTAGGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGTAGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTGTCAGCAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCTGTCCAGCGAG
AGCAGGAATAAGTGGTCTCTGCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCCAGAGGGACCAGGAAGTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCATA
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGCAGTGTCTAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCAGTCCT
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGCAAGGCTCATGCTGCCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAAATTGAGCCGAGTCTGGAGGCCAGCACTGCAACCCTGC
AAGCCTCCCTGGATGCCTGCCAGGCACACAGTCCGCAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGCAGCAGCTGCAGCAGGCACTTGCCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCTTCATCAGAGTGTAAAGGAGCTACAGCTGA
CTCTAGCCCCAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCCAATGGAGGAACAATCTCTAAAACCTTGATTCTTTAGAGCCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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FIGURE 5744C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTGACAGTCTGCAGGAGGTAGCCATGTTCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAAGTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTACCCACACAGCAGGATGGGAGAGGACAGAAGAAGTCTAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCAGGCC
CTGAGGCCACTGTCTGGAGGCAGAGACCCGAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCTCTGCTACACCCAGCCCCAGCACTACCCAAGCCGCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTGTCATGGGTGATGGCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CACCCAGGAGCCCCAGGTCGGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAA

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FIGURE 5745

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTTCAGTGGCCTTCTCATGCTGCTACTG
TTCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGACCCCTGACTCCCTGGACCCTGATCGC
TGTGAGAGCTGCTATGGTGTGAGGCAGAAGATATCAAGTGTGTAAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGGAAGTCAATAAGGTGGCCGGAACCTTCCACTTT
GCCCCTGGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCCTGCGCCCCAAGCCATCATGATGTTCCAGTACTTTGTGAAGGTGGTGGCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTGGCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTC
ACCCACTTCCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTAGTCACCCTCGGTGCTTCTCTG
TCTCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTGAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5746

MEALGKLGKQFDAYPKTLEDFRVKTCGGATVTIVSGLLMLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKDGIPVSSEAERHELKGVEVTVFDPSLDPDRCESCYGAEA
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEQKNEGCQVYGFLEVNVAGNFHFAPGKSFQQS
HVVHVDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVVP TVYMKVDGEVLR TNQF
SVTRHEKVANGLLGDQGLPGVFVLYELSPMMVKLTEKHSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK
KIDLGKTT

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FIGURE 5747

ACCAGGCAAATATTCCATTACAGCATTACAAAGATGGATGTTCTTCAGTTCCTAGAAAGGAATCCCAGTGGATGAAA
ATGCTGTACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATG
ATGCACATGGCCCACTGCGTGACCTTGGTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGC
TCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA
CGGGTGCGGAACCTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG
CTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG
CGGGGGACCATCAGGCTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCAC
CTGGTGTACAGATCTGAGGTCTCAAGAACAACCTGAACCTACATGGAAGCGTTTCTCAGTCCCCGTTACGAT
TTCTGTGGTGGGAACCCACAGCACCCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTACATGATCTC
ATCGGTACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAACCTATCCGTGTCAAGATTGTGCGGGTAGAAACAGAGTACTCC
TTTCTGGACTATGTGATGGGAGGCTGTGAGATCAACTTCACTGTGGGCGTGGAATTCAGTGGCTCCAATGGAGAC
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG
GGCAGCGTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTGGGGCCAGGTTCCTCCCTGAC
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTG
GATGCCTACCGCCAAGCCCTGCCCAAGTTCCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GCCAGGTTTGCAGCCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTGAGTGATCATTGTG
GGTGTGGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACACGTTCTGGG
CAGGCTGCTGCCCGGACATTGTGAGTTTGTACCCTACCGCCGTTCCAGAATGCCCTCGGGAGGCATTGGCA
CAGACCGTGTGCGAGAAGTCCCCACACAACCTGGTCTCATACTTCAGGGCCAGGTTGGGCCCCGCTCAAGCCA
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCCAGGCCTAGGTTCCCTTGAGGCTGTGGCAAGTCTCAA
TCCTGTGTCCAGAGGTCCCTXTGGGCCACAACCAACCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT
TTGATACTTTTATACTTGTCTTTTGTGCTCTTGTATCCACCTTTGCTCCTGACAACCCTCATTCATAAA
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5748

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGWAELGRTERVRNCSSPEFSKTLQLEYRFETVQKLR
FGIYDIDNKTPELRDDDFLGGAECSLGQIVSSQVLTLPMLKPGKPAGRGTTITVSAQELKDNRVVTMEVEARNLD
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFSVPVQHFCGGNPSTPIQVQCSDYDSGSHDLIG
TFHTSLAQLQAVPAEFECIHPEKQQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINF TVGVDF TGSNGDPS
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSDKLFPAFGFGAQVPPDWQVSHEFALNFNPSNPYCAGIQGIVDA
YRQALPQVRLYGPTNFAPIINHVARFAAQAAHQGTASQYFMLLLLTGAVTDVEATREAVVRASNLPMSVIVGV
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQONAPREALAQTVLAEVPTQLVSYFRAQGWAPLKPLP
PSAKDPAQAPQA

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FIGURE 5749

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGCCCCACTTCCCAGCCTACCGCTTCCGTCCCCGCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTGGCACATTTCAT
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAGAAAGTCTTTGAGT

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FIGURE 5750

GGACGCAGAGAAGCCAGAGACTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCGGAAACGTCTCCCTGCTC
ACCCACCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGGCGGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCTCACCGCCTGCCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGCCCTGGAGCTGCCTCTC
GGGCCCCGACCCGTGAGCGTAGCGCCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCGGCTCTAGA
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCCAGGCGGCTCGGGCCCGGCGGATCCGCCGCCGACGGATGTGCGC
ATCACTGGCTGAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTTTGGCAGCGCCAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 5751

MAATEPILAAATGSPAAPPEKLEGAGSSSAPERNCVGSSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELP
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFQFRYQDAAGPREAFRLRELSRQWLRPDIRTKEQIVEM
LVQEQLLAILPEAARARRIRRRTDVRITG

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FIGURE 5752

CTTTTTCTTTTCTGATTCTTGTGTATGTGTGGCTGGGCCGCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT
TGAAGTAGGCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCTCTGA
GAAGCCGTCGCCAGAGTTACGTGCGGGTTTTCTTAACTTTAGAGCCTGGGGGCCGAGACCCTGATTGCACTCGA
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCACCCACCACT
GGCCCCATGGCTGCCGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC
CTGAACATGCCCAAGGGAAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTGGGGCCCAAGTTCCGGGGCGTG
AAGATGATCCCTCCAGGCATCCACTTCTCCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT
CGTATGGGTTTCTTCTTAGCCTGCACCAGCGGGGGCTGACAGTGTGCGCTGGAGCACACTCAGGGAAGAGGTA
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTTCTGGGG
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTACCAACTTCATCAGCGAAGCCACAGTGGAGAAGCTA
CAGCCCGAGAATCGACAGATCTGTGCCTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC
GTGGGGCAGAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCGCTACAGAGATG
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC
CAGGATGTGCTTGGTGAATCCAGTTTGTCTTTGTGTGCTTCTGCTGGGGAATGTGTACGAGGCATTTGAGCAT
TGGAAGCGGCTCCTGAACCTCCTGTGCCGCTCAGAAGCAGCCATGATGAAGCACCACACCTCTACATCAACCTC
ATCTCCATCCTGTACCACAGCTTGGTGAGATCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAACCTC
CTCACCAGCACCTTACAGGTTTTCTTTTCTCTGCTGCAGATTGCCGTGGATGCCACCCTGAGAAAGAAAGCT
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTGCCCCGGTG
GTGGTGGAGCTCCCTGAGGGCATCGAGATGGGCTAACTCGGGGAGCGCTCTCAGCTGCGAGGGGCCCTTCCCAC
AGGGCTGCAGTCTTGGCCTCTCCATTTACTTCTTCCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC
TGCAAAGATGGAGCCAGAATTCCCTTTTTCTACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC
TGAAGGCACATTTGTGGGTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTTACACAGGCTCTTACA
CACACACGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAAG
TCCAAGAAAGAACTGATTGCTTGTTCATAGGAGCTTAGGAAACAAGAAACCCTGGATTGCCAGGGGGTCTGAG
AAGTTGGTTGGTGACTTTTTTTGCGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCCCTGCCTCTT
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA
GCTGGATTCAATCTAGCAGGTGGTCAGCTTCAGCTTTCTCCATCGAAATCCCAATTCCTGTCCAGAGGCCAGT
GGGTCTCTCCCAAGGTGGGTGTGGACCTGGCCTCAGAGGCCCTTGCTGGTGCTGTACCTCCACCTGTTCCAT
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCCCTTCTCACCAGAGCCACCGTGACTGTTTCTGATGACCTGGAG
AGTCAACAACAACCAGAAAGGTTTTCTGCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTTGTGCCTTCCAAG
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCAGTCCCGCTGTGGAGCTGTGAGTCACCGGAGTAATGAGCTC
CTGGTTCTCGGGAGTCTTCTGTGCTGTGTGGCAGGGTTCTCTCTAGACAAGTACACAGGCCCTGCCACCCTGA
CATCAAAGTGTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA
ATGAGAATCCCTGCTGGTTGAGACTTTTGTCTCCACTTGTTTCTTGGAGATGTTTTTCCAAGAGCATAATGTAC
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5753

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPKFRGVKMIPPGIHFLHYSSVDKANPKEVGPRM
GFFLSLHQRLTVLRWSTLREEVDLSPAPSEVEAMRANLQELDQFLGPYPYATLKKWISLTNFISEATVEKLQP
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGRLARLPENKPRAGTEIRFSELPTQMFPEGATPAEI
TKHSMDSLVALETVLNKQFPSSPDVLGELQFAFVCFLGNVYEAFEHWRLLNLLCRSEAAMMKHHTLYINLIS
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSIADVATLRKKAKEFQAHLTKKFRWDFAAEPEDCAPVVV
ELPEGIEMG

6230/6881
FIGURE 5754

GGAAGCCCCACCCACCAGAAGCCAAGATGTCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAAGTCCCAGATCCAGGAGTTTAAGGAGGCTTCAACATGATTG
ACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCACAG
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGCCCATCAACTTCACCATGTTCTCACCATGTTTGGGG
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG
CCAAGGATAAAGACGACTAGGCCACCCAGCCCCCTGACACCCAGCCCCGCCAGTCACCCCTCCCCGCACACA
CCCGTCCATACCAGCTCCCTGCCCATGACCCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCCA
GTGGAAGAAACAGGCCAGGAGAAGTGCGTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC
CCTGAGTCCTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGTCCCTCTCAGT
CCCCTTCCCTACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA
GGAGTCGCGGGCAGCGTGGACATCTGTCCCAGAGGGGCGAGAATCTCCAATAGAGGACTGAGCACT

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FIGURE 5755

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDM LASLGKNPTDEYLEGMMS
EAPGPINFMTMFLTMFGEKLN GTDPEDVIRNAFACFDEEASGFIHEDHLRELLTMGDRFTDEEVDEMYREAPIDK
KGNFNYVEFTRILKHGAKDKDD

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FIGURE 5756

CGGGGGGGTGGGCGCAGCTCGTCGCGCTCCGCACAAAGTTTGTTCCTCCCTCCGGGCGGGTGGGGGAGGGCGCA
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGTAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGTAGGCCGAG
TGTCAGGCCGGGCGAGTTTACCCAAGGTCCAGCCTAGCCCCTAGGCACCATGTGCGACAGTGATCTAGGTGAGGA
CGAAGGCTCCTCTCCCTGGCGGGCAAAAGGAAGCGCAGGGGGAACCTGCCCAAGGAGTCGGTGAAGATCCTCCG
GGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA
CCTGTGCTGCTGCAAATATGTAAGTGGTTTCAATGCCCGCGGGCGGCTTCTCCAGACATGCTTCGGAAGGA
TGGCAAAGACCTAATCAGTTTACCATTTCCCGCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAG
CAGCCCTCAGTGCTGGCTGTGTCTGTCCAGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT
TCACTCAGGCCAGGGGGAAGCCAGCAGCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCTTGGTGAC
CCCTGGTAGCACACTTACTGTGTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACACGCCACC
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTACGAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC
TGCTGAGATGGAGCTTCAGAAGCAGCAGGACCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTGA
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTGGTTCC
CTTTCATACAGAGGGTTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGCTGACCTGCCGTTTCTCCAGGCCTC
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGTCTGCTTCTGCTGCTTCTCCAGAAATCCCTG
GGACACCTTTGTTCCAGCCTGGTTTCTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCCTATGTTGGGTCCA
AGCTGCCCTGTGCTGTTTCTGTCAAGCCAGGTGTGGACATTCCAAGTTCATATGCGTGAACAAAAGAAAAGAGG
AACCCAGTGGATGTAACAGAACCGACTCCAGTTGAATGTTTAGATTTTGTCTAACTGTTTTCTTTTTCCCTTTT
TTGCTGTGGTTTGCAATCACGCGAGTAGTTAGCCAGGTGTGGGAACGAGAGTGCATGATAGCGTTCTG
GTGAGCTGGGAAGGACCCACCACTGCCACTGAGGATTGTTTTGGAAGAAAGGAATATTTTTATCTTGGGGACCAG
CTAAGTCTCTGCAGTAGTGTGAAATTCAAATGGTTGTTTTATCATTGGTTTGGTTTACCAAAAAAAGGCAGGG
AAAAAAGAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCCGAGGCACAGAAGGGTAGAAAGCCACAGCAG
GGGGCAGTCCAGCAGACTCTGACTCAACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAGGTGTTTGGTT
TTTCTTTTAAATTTTATTGTAGTTTTTTTGGGTGGGTGGGGGAAGTAACTAGACTGAAGCGATGGATTTTTTT
TTCTTTTTTTTCTTTAGTGTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTCAGTTTTGAATCTTTT
AGCAACTTGGATTAGAGGGGGCCATATGTGAGAAGCTCCAGCACCTCCTACTTGGGAGAAAAGTGAGCCATCTG
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTCCACAATGGTGGCAGGAACTTTGGGGAAAGCAGGAATGGT
GTCCACTGCTGCGGAGGAAGTGCCTTCAGAGAAGGTGGGGCTGGAAAAGGGTTAGAAGCCTCCTAGCTGGGATTG
TCTTTGTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC
TCCTCCCTTTCCCCCATTTTTCTTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGAGACA
GAGTCATGCTGTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCTCCCGGGTTC
AAGCAATTATTTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGGAACTCCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG
CTGTTTCAATTGCTGACAGTGTCAACAATATGCCCATCTTTATATATCCTAAGAAACACTAATCCTAGGTTATT
GCTAGCCAAATATTTTTGTCTGAGTAGTGTCACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTT
CTGAAATCACCAGGTGAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAACTTGGGTGGGTGGATCTAGCCAG
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCAAGTCTG
AGTCGCCCATCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGGCA
AGTTTCTGGGCTCTCTGTGTTGCTCCCTCTGGCTTCTCTCCCGTGCCCTCTCCCGTGTGCCCCAGGGGGA
TCAGGGATCTCACCCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA
TTTGCCAGCCTCTTCCATCCCAGCCCTGTCACTGAGCCAGGTCTGGTGCACTGCTGCAGGATGCCTGTAGTA
GGGAACCTCTGGAAGTGTATTGGGCTGAGGTGGGATTTTCCCTCCCCACAGTGCATGAGCAATGGAGGGTGGTGA
GGGAGCCATGCTGCTGAATCTGGTTGGCATTTCCTCATATGTAATAAGGGTGTGGGTAGGGCAGACTCTGC
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCACAGTTGTCCCATGAATTATTTGAGCAAAACTACTGT
AAATAACTTTTTTGTCTTTTGTCAAATAAAATTTTTTTTTTGTTTTTTTAAGCAG

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FIGURE 5757

AGAGTTTCGGAGGCGGTGACCGTGACGTAGAAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTGTTTCAGAGTTTACCACCTA
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAAT
TGGAATCAAGTCTCAGTCCTGTGGAAGTGTGCTAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTACCAGGGCATCACAGAGCTCAGC
CGGTCTATCAGTGTGATTTAGCAGAAAGCAAACGGCTTGGCTGTCTCTGCTTTCCAGTTTCCAGTTCTCTATT
CAGAACTTGAACCTTTCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTCTCTT
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAACTGATGGAACCTACAAAAATGTTTTGAAGATTCAAAAT
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG
GCCAAAATTACTGAGGTCAAAGTGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAA
CCTGACTACCAGAAAAATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGAATGGATGAAC TGCAAG
GATCAGTGAAACAGCTGCAGGCCTTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACGTGTTGAAGCTTCAGCTACAGAACCCACCTGCCA
TACATGGATCTGGATCTGGATCTTGTCTAGTGACTTTATGAGAGTTTCTGCCACAAGGTGCCCAAGAGGAGAGGAA
TGGGAAGAGTGCCCCAGCACGTGGTGACTGCGTGATTCTGCTCGTTGCCTTTGAAGATAACTGGCAGGACTGAC
TG TAGAACACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACTTCTTTTTTGAATGATCTTCAGATCCAGTGGCCCATTTCTTTT
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTTTGAAACAATCCAAAAATCATTTAGGACCAAGTCTAAGGAAACA
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTCTAGCATGGCTCTGAAGGTGATTTTA
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG
ATTGCTTGAGCCCAGAAGTTGAAGACCAGCCTGAGAAATAAGGTGAAACCCCTGTCTACAAAAAATACAAAAAGTT
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGCTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCCAGG
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA
AAAAATTAAAAATTGT

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FIGURE 5758

MIINWNQVSVLWKCLLKQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRISISVDLAESKRLGCLLLSSF
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDTLQKCFEDSNGKASDFSLEASVAEMKEYITK
FSLERQTDQQLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTKPDYQKNYRTRAKSLTVWSW

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FIGURE 5759

AGCGTTGCGAGACGGTTCGGTTCCAAGTGGGCCTGGGCGCGGGGAGAGGCGGGTCTGTCTCGGGAAGTCAAGG
CCCTGTGAGCGGGAGGACTGGGATCCCGGCCGCGGCTGCTGGAAGCGTCGAAGCTCAGCGGGGCCGCGGACACTG
ACCTGTGCTTAGAACTCATCTGGCCCCGAGAGCCTGCCGCGAGTCCCTGGCGTCCCTGTGGCGGGCTCTTGGA
GCCACTTTCCCGAGCGGAAGTCAGCCCCGCGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCCGGG
TTCAAGCACTGTCTTCTGTTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCCCACTCACTACCTCAC
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAATTTGGAATCTGCCTTCTACTCCAT
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA
TCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTC
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTGAGTGAAGGACTCATCTGTTACCCAGATCTACCATGCAGTTGC
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCCACCTGTCCCAGCAGGCTGACCTGAGGAGCAT
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGTTTGAAGAAGGACT
GGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCATGGATCATGTGGGGACTGAGCCATCCATTAAAGGA
GGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGTACCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTC
CGACACTCATGAACAGGCTATCTTGGGTTGCAAGTCACCAATGTCTGTCTCAGCCTCTGACTCAGGCCACTGT
TAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCAACCCCTGTAGGGGA
TGTTTTTGAAGTAAATTTTCATGAACGTCAAATTTCCAGTGGTTATTATGACTTCCTTGTCGAAGTTGAAGGTGA
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAATGTTGATCT
TTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAAACCTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCAC
ATTCATCGCAGACAGCCACCAGAACTTCGCCTTGTCTTCCAGCTGGTAGATGTGAACACTGGTGTGAACCTCAC
TCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA
CAAGAACGTGTACAAGTTTGAAGTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC
TCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTGGCTGATGTGGTTCATCAAGTT
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT
CCGCGAGCCTGAGAAGAGGGCCCCCACCCTGGTGTCCAATACATTCACTGCCCTGATCCTCTCGCCGTTGCTTCT
GCTCTTTCGCTCTGTGGATCCGATTGGTGCCAATGTCTCCAACITCACTTTTGCTCCTAGCACGATTATATTTCA
CCTGGGACATGCAGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCCAGCAGGCAGTCAAGAGAACAGC
ACATTAGTTCAGAAGAAAGATGGAATTTCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAAATTCACAGTA
TGAGAAGAAAAATGGAAAAAAAACCTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACCTTTTGCTTGT
TTTTAGTTTCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTCTTCTCTGACACTGTGTAAGAAGC
TGTGAATATTCTAACTTACCCAGATGTTGCTTTTGAAAAGTTGAAATGTGTAATTGTTTTGGAATAAAGAGGGT
AACAAATAGG

GCACGAGGGCGAGCTGAGGTGGAGGCAGGCTGCGGCAGACGGCGACAGTGGCGGGCGCCATGGCAGGGCTTG
CAGGATCCCTGCTGCCTTGGTGATCCCGGGCTGACAGCCAGAGAGCACAGCGGCTCAGCTCCTGGAGAGTGAGG
TTGAAGAAAGCGGAGGGCAGCCGCTGCGCCCGCTGGCTCCCATTAGGTGGTTCTCTGCAGCGGTGCCCGGCAGC
CTTGGTGAAGGCCCTGCCCGGCAGAGATCATGTATTGCTCCAGTGGCTGCTGCCCGTCTCTCATCCCCAAGC
CCCTCAACCCCGCCCTGTGGTTACGCCACTCCATGTTTATGGGCTTCTACCTGCTCAGCTTCTCTCTGGAACGGA
AGCCTTGCACAATTTGTGCCTTGGTTTTCTGGCAGCCCTGTTCTTATCTGCTATAGCTGCTGGGAAACTGTT
TCTGTACCCTGCTCCGATTCCCGCTTCCAGAATCGCGCATGATCCCGCGTGTGGGCACCTTAACGGCGCTG
CCCTGTTAGCTTTCCAAGGAAGCAGAAGACGGGAGGGGAGGCATTGACATAGGTCATAAAGCATTGGAGTTTCAA
ATCCCGCAGCCTCGCGGGTGTACATTCTGACGGCGCTTTTTGGCCTGTGATGTTTTATCCTTACAATGTGAA
TAATGGCACTGACCGGTGCTTTTTATTGTAAAGTCTATAGTCGTGGGTGGTCTTGTGGTTGTGTGTTCTGTCC
CACTCTAGGTCTTGCTGGCCGCATGACCACCCCTCTCGCTCATTACTGTGAGGAGTCTGGGTCATCCTGGTC
AGCTGCCCAAATGTGACCTGGGGCAGATAAAATGCCAGTCTCATTGTACCTCTGTGACCCCTCCTTGTGAGGGT
CTCCTTCTCTTCCAGAAATGTTACTGACTCCTCAGTCCCTCTTCTGGTTTTCCCTTTATTTCTCTTCTACCCTTTTC
CTTTTTTGGGGAGTACCTGTCCAAGACAGGGCTCATTTTTTGCACTTATCTCGAATTTGAAGAGATTGCTGACGCC
CGAGAGCCTCGCTTTTTCATCCTTCTTCTTGTTCAGCAGGCTAGACAGAAACATGTCTTGACTGTTAGTTGTC
CACAAATCTTCAGTATTTTCTCCACTTCATTTTTAAGAAAGGAAGCAACAGATAGATGTTGCTCTTTCACCTGGG
TGCTGGGCTCAAGCTTTCCCGCCCGAGCCTCACTTCTTTGCCCTTCTCTGCTTTCTCAACTGTCCCAAGGA
GGGGGCCTCATTTGTGTCTCCCGTGCATGCTCTGCAGCATTGAAGTATGGTGTGTTACGTAAGTTCTAGCAGTCCC
CAGCTGAGTGAGTGGGAGAGTACCTGTGTGTTTCGTACGGCCTTGATCCCTTGATAGATGTTTGGATATTTTT
TGGTGTGCCCTGTGTGTGTGTGTGTACAAATACATGTGTATATTCCTTTTAAAGAAGCTTTATCGAACGTGGT
CTGATTTTGAGGTTTAGCAATAGCTAGCTATATATGGTAGGTGCCGCTACAGTTTTTATTTAGCATGGGGATTGC
AGAGTGACCAGCACACTGGACTCCGAGGTGGTTACAGACAAGACAGAGGGGAGCAGTGGCCATCATCTCCGCCCA
GGAGCTTCTTCGTTCTGCGCATATAGACTGTACGTTATGAAGAATACCCAGGAAGACTTTGTGACTGTCACTTG
CTGCTTTTTCTCGCTTTCAGTAACAAGTGTGTGGCAACGAGACCTTTCTCTGGCCCTGCCTGCTGGAGATCAGC
ATGCCGTGCTCTTTCAGTCTGATCCATCACTCTCTCTTGGCTGAGGGGAAAGAGAGATGGGCCAGGCAGAGAAC
AGAAGTGGAGGCAGTCCATCTAGGGAATGGGACTGTGAGGCCATACTTGTGAACGCTCTGGACTGCTATTCTAGA
GCTTTTTATTTGGTGTGTTCTGTTGCACAGCTGTTTGAAATGTTTAAATAAAGCTTTATAAACTTTAAAAA
AAAAAA

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FIGURE 5761

MYCLQWLLPVLLIPKPLNPALWF~~SHSMFM~~GFYLLSFLLERKPCTICALVFLAALFLICYSCWGNCFLYHCSDSPL
PESAHDPGVVGT

6238/6881

FIGURE 5762

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG
CGGATCTCGGCAAACCCCTCTTTCTCGACCACCCACCTACCATTTCTTGGAAACCATGGCGGCAGTGGCGGGCGGCTC
GGCTGAACTGCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCTTGGAAATGCTGCATTTACTG
GGTAGGATTTCGCTTTTCGAAATCCTCCAGGGACACAGCCCATTTGCGAGAAGTGAGGTGTTTCCAGGTACTCCCTGCA
GAAGCTGGCATAACCGGTGTGCGGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCAACTGAGG
CCCCAGCTCCCAGCCCTGGGCGGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG
CGCAGGAATGTGGGGTCCCCTGTGTTCCCTCGCCAGAGGAGCACTTGGCAAGGTCAGTGAGGGGCCAGTAGACCC
CCGGAGAAGCAGTACCGACAATGACGAAGATACCAGATCCCTTCCCAACCCCTTTGCACCGGTCCCACTAAGGGG
CAGGGTCGAGAGAGGAGGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG
ACAAAGTCGGGACAGCACCATCCCAGCCCCGAAGCCAGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGCACCAACCGCGT
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT
CCCTTGCCAGGGCACTTGCAATTCAGCCTCGCTGCATTGCTCTCTCGATTCCCCTTTCCCTCCTCACTGCCTCC
CAAGCCCCACCTACTCCAAAATAATGTGTCACTTGATTGGAATATTCAAGCAGTAAAGTAAATGAATCCCAC
CTTTACTAAACACTTTCTCTGAACCCCTTGCCCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG
GTCAATATTGTGTAATCGCTAATTGTACTGATTGTTTAAAGTGTGCATTAGTTGTGTCTCCCCAGCTAGATTGTA
AGCTCCTGGAGGACAGGGACACCTCTACAAAAATAAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCCCAGGA
CCCTGCGGTGCAGTAGAGGCGCACC

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FIGURE 5763

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT
ATTTGCTGGGCCGGGTACCATGACGTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCACAAAACGTCCCCG
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCGGAAACAACTGGTACTCGAGAACGCGGCCGCTATCGGGAAGA
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA
GGAAGAGGAAGAGGAGGAGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA
TAAAAACCAAGAATTGCGGATTAAGTTTCCAGACAATCCAGAGAAGTTTCATGGAATCCGAGCTGGACCTAAATGA
CATCATTCAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAATGCTGTACA
GTCGCTTCTCGGCTTGCTCGGACACGATAATACAGATGTGTCCATAGCTGTGGTCGATTTGCTTCAGGAATTAAC
AGATATAGACACCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT
AGCACTGCTGGTACAGAATCTGGAGCGCCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT
GGCTATTGTGGAAAACATGGCTGAGTTCCGGCCTGAGATGTGTACAGAGGGTGGCCAGCAGGGTCTTCTACAGTG
GCTGTTGAAGAGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTCTGGCCATATT
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC
CGTGTTTAAAAGACACAATCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG
GGAAAAGAAGATCTCCCGAGCAGTGCCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTCCCTCTTTATGAAATCTCCAGGAAGATCAA
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCGATCCTGGCTTCCCTCCTGCGGAACCTGAG
AGGGCAGCAGCGGACCCGGCTTCTGAATAAAATCACTGAAAATGACAGTGAGAAGGTTGACAGACTAATGGAGTT
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCCAGATTGCCAGAGGGTTACACAGATCCT
AAACATGCGAGGAAGCTCCATCAAAATTGTGAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG
GAGCCCGGAGTTCCGGGAGAACGAGCAAAAGCGCATCTGGGCTTGCTGGAGAACTTCTAGAGGCACCTTGGCCC
TGCGCATCATGGACTCTCTCAGCTTCCCTCCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGGACAAAT
AAAGCTAGTTTTGGTAAAAA

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FIGURE 5764

MDVGELLSYQPNRGTKRPRDDEEEQKMRKQTGTREGRYREEEMTVVEEADDDKKRLLQIIDRDGEEEEEEEE
PLDESSVKKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDIIQEMHVATMPDLYHLLVELNAVQSLLGLL
GHDNTDVSIAVVDLLQELTDIDTLHESEEGAELIDALVDGQVVALLVQNLERLDES VKEEADGVHNTLAIVENM
AEFRPEMCTEGAQQGLLQWLLKRLKAKMPFDANKLYCSEVLAILLQDNDENRELLGELDGIDVLLQQLSVFKRHN
PSTAEQEMMENLFDSLCCLMLSSNRERFLKGEGLQLMNMLREKKISRSSALKVLDHAMIGPEGTDNCHKFVD
ILGLRTIFPLFMKSPRKIKKVGTTKEHEEHVCSILASLLRNLRGQQRTRLLNKFTENDSEKVDRLMELHFKYL
AMQVADKKIEGEKHDMMVRGEIIDNDTEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS
IKIVRHIIKEYAENIGDGRSPEFRENEQKRILGLENF

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FIGURE 5765

CCTCCCTCGGGCTCCGGTCCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCGGGACTGGGCAATGGGTGGCC
TCCCAGGTCGCCGCTTCCC CGGGGCCCCGCCCCGCGCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC
CGCCTCGGCAGTGCCAGCCGCCAGTGGTTCGCACTTGAGAGGTCTCGCCGCCAGTGAAGGAGCCACCGCCCCG
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACACAG
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCACGGGGCCAGCCCTTCTGGCTGACCCTGCACCTTTGAGGGCCGC
AACTACGAGGCCAGTGTAGACAGTCTCACCTTCAGTGTCTGACCGGCCAGCCCTAGCCAGGAGGCCGGGACC
AAGGCCCGTTTTCCACTAAGAGATGCTGTGGAGGAGGGTACTGGACAGCCACCGTGGTGGACCAGCAAGACTGC
ACCCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCTCCACT
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTCATTTTGCTCTTCAACGCCTGGTGGCCAGCGGATGCTGTG
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCTCACCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG
TTCATCAAGAACATACCTTGGAAATTTGGGCAGTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT
GTCAACCCCAAGTTCCTGAAGAAGCGCGCGCGTACTGCTCCCGCCGAGCAGCCCCGTCTACGTGGGCGGGTG
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGTGTGCTGCTGGGACGCTGGGACAACAACACTACGGGACGGC
GTCAGCCCCATGTCTGGATCGGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCAGGCTGCCAGCGCTCAAG
TATGGCCAGTGTGGGTCTTCGCGCCGCTGGCCTGCACAGTGTGAGGTGCTGGGCATCCCTACCGCGCTCGTG
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC
CAGGGTGACAAGAGCGAGATGATCTGGAACCTCCACTGCTGGGTGGAGTCTGTGGATGACCAGGCCGACCTGCAG
CCGGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGCCCA
GTTCCAGTTCGTGCCATCAAGGAGGGCGACCTGAGCACCAAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATCACCCACACCTACAAATACCCAGAGGGG
TCCTCAGAGGAGAGGGAGGCCCTTACAAGGGCGAACCACCTGAACAACTGGCCGAGAAGGAGGAGACAGGGATG
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCAACAAC
ACCGCTGAGGAGTACGTCTGCCGCTCCTGCTCTGTGCCCCGACCGTCAGCTACAATGGGATCTTGGGGCCCGAG
TGTGGCACCAAGTACCTGCTCAACCTCAACCTGGAGCCTTTCTCTGAGAAGAGCGTTCCCTCTTTGCATCCTCTAT
GAGAAATACCGTACTGCTTACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGGAGCCAGTTATCAAC
AGCTACCTGCTGGCTGAGAGGGACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCAAG
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACT
GTGGAGGGGGCCGGCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTT
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTTCGAGAGCGACAAGCTG
AAGGCTGTGAAGGGCTTCCGGAATGTCATCATTGGCCCCGCTAAGGGACCCCTGTCTCCAGCCTGCTGAGAGCC
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCCCTTCTTGGGCCCCAGACCCAGGGCA
GGGTGGGCAGCCTATGGGGGCTCTCGGAAATGGAATGTGCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTG
CCCACTCACCCCTTTGCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC
TGGGGTGAGAGAGGAAAGACCTACATTCCCTCTCTGCCCAGATGCCCTTTGGAAGCCATTGACCACCCACCAT
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAGGGACAGCATGCCCTTGGCTGGATCAGGGAAT
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA
CCTCACCATTTGTGAAGCACCTACTATGTGCTGGGTGCCCTCCACACTTGCTGGGGCTCACGGGGCTCCAACCCA
TTAATACCATGGGAAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC
CCCCTCCACACCACTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCT
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGAGAGGCTGTCTGGGCGCTTT
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT
TCAGGTCCCACGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCTTTGTTTCCTTGTGGTCAGAGGAGTGATT
GAACCAGCTCATCTCCAAGATCCTCTCCACTCCATGTTTGCAAT

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FIGURE 5766A

CGCTCCTCCGAGATGACGCCGGGGTTCGGTGCCCCGGGCCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCGCGCCCAGGAGAGGAGCCGCGCCGCCCGCCGCT
GGCAGCCCGTCAACATGGTACCCTCCATCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT
TTCGAGGCCACAGCACCCACCGTCTGGGTGAGGTGTTCCGCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG
AGCTTCCTTCTGGATTTCTGATCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAGAAGCAGCCTGTGCTCCCTAC
TCACACTGCTCTTCTTACAGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC
AACCCTCTCTTATTGCCGCCAGGGTGACTTCTACCTCCAAGTGAGCCCCAGGAGGAGCAGTCTGTCTGCATCATG

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCTTATACTTTTC
ACCCAAGAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA
AATGGGATTGCCCCGTGTCCTTGGACCAAGATAACCAGCCAGAGTTTGTGGATGACAGACCCCAAGTAGTGAAT
GCCCTCTGCCAAGCCTGGGGGCCCCCTTCCATTAGAGGCACTGGATTTGAGCAGCCCTCAAGAGTTGCACCAGGCC
AGCTCCCCAGACAACCAGGTGCTTCTGCCAGAGTTTGGCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC
TTCGAGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCCAGTAGGGAGGCAGGC
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACCTAAGGAACTCCCTTATTTCAAAAGATA
CTGCCTCTCTCAGAGGCCAATGAAGGACCTTCCTTGGGAAATCGGGCTTGCACAAAGCCAGAAAGCTCTGAGGAG
AGGCCCTATAATTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAACTCAGAAAGGCCGCCCAA
GGCTCCTACATGAATGTCTTGAGGACGCACTGGACTGTGCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA
GCTGCCTCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC
TCCTCTCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAAGAG
AGAAATGGGAGACTTCCCAAGCCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCCCTGAGCCCCCACTCCTGGG
CTCAAATTCTCATTCTTGAGAGGGCAGAGGCAACCCTCTGTGACCCCGGAGAAAGCCTCACTCCAGCACAAATGGG
CCCTGGAAAGTCTGTGTTCCTCTACTCTCCTAAACCCAAACCCAGCCAAATCTTTGGGAAAGCTGGAACAAT
CAGACCAAAACATCTGGCCAGCCACTGCCCCAGCCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCAGGGCCTGAGCCAGGATTGGGGCTCTAGGT
GTCAAGGTTTTCGCTCCAGGATAGCATGCCCTGCCAGGTGGCCGGGACAGGGCCGGGCGGCCCTGCTTCTGGTG
TCAACTACAGAGGGGGCTGGGAGGCACCATGGTGCACAGTTTCAGAGGTCACCAAGCTACTGTCTACCTGTGT
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTGATTGACGCCAGGAGACAGCCCCACAGCCC
GGTCTGGTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC
CACCATGTGGACCCAGCCAGCTGCCCGCAGTCTGGAAGGCCCTTCCCCTACTGCCACACCCAGTGGGTTTCT
TTCTTCCAGAAGCTGGACCTTTCTTGTGACCTCCACAGGCCTCTTCCCTGCTACAAGCTTCCATCGAGGAA
TTCGAGAAGGCCGACCCCTTGGGGGATGCAGGAGGCTACCAGGTGCCTGAGCAAGTCCAAGGAGCTGATGGAG
GCTGTGCTGAGGGACCCCGCCTACTGGGCTCCAGCGGGAAGGTGGAGCCACCCTGGCCAGGCTGCAGCATGAT
GCCAGCAGGCTGGACTTCAGCCCTGATGTGAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC
GAGCAGCTTCATGTTCTGGTCACCGCTTCCAACAGCCTCCTGGGGAAGCTGGAGCTCCGTGTCCGCTGGGCCGC
CTGGAAGCTGCCATTACCCAGGTGACGACTGGATGGAGCAGGAAGGAAGGCGGTGCCTGCAATCACTGACCCCC
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAAATTTGAGAACTTCTTCTCCAGGCTGCAGCCAG
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCAGAA
CGTGCAGAGTTCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCCTTCCAGGCTGAGCTGACCCACTTTTAC
ATGGCGGCGGAGCGGCAACGCACGGACCTCGAGACGCTGTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG
TTCCACATGGACTGTGAGGACCTGATGGCCAGCTCAGGCTGGACAAGACCTCAAGGGTCAGTCTGGGGACCAG
CGCCGCTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG
GTGGCCTCCCTGAGCCGGGAGGCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCAGAACGA
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA
GACTCACTGGGCATGGACCATTTGCCAAAGTCTTATGGCTCCTGGGCCCCCCAGAGGGGAACAGAACAGAAT
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCCAAGCTG

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FIGURE 5766B

CCTGACCCTGCCCGGAGCATTGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT
CGCCTCACTGGGGGAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCAGACAAGT
CCCCTTGCCCTCCCTCTAGCTGAGAGGGCCCTTCAGTCGCACCAGCCTCCAGGAGCACTGGGCCAGGGCCAGCTG
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCAGTGAGACGTACCATTGGAGCACTGGTTTTACATTCTGCCTCTGC
TGGGAGGATGAGAACTGTCGACCTGCCCTGGCTCCAGAAAACCTCTGGAAGACCCGATCTTCACCCATGCAGAA
TAGCAAGAGTGGGCGTCAGAACCAGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG
AAAGACCTGTGCGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA
TACACAGCTCTCCCCTCGGGTACGAGGGCCAGTGTGCCCTTAGGCAGAATCCTCGGGGAGATTCCGGGAGTGCTT
CCTTGCTTGGATTCCAGGAAAATGGACCCTGAGATGAGGATTAAGGATCAGTGTGTTTGGTGCTGATCCAGGA
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTCTTTTTTT
TAATTTTTTAAACTTCATTGTATTTTATGTTTAGAGATGGGGCCTCACTACATTGCCAGGCTGGTCTCAAACCTC
CTGGGCTCAAGTGATCCTCTTGCTTGGCTGCCAAAGTGCTGGGATTGCCTTTTCCGCCCCACCCCCCGACCC
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAATCATAGCCTTAAATTCCTGGGTT
CAACCAATCTCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT
ATTTATTTTTTGTAGACATGGGGTCTTGCTATGTGCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA
CTCAGCCTCCCAAAGTGCTGGGATTATACGTATGAGCCACTGTGCCCCACCCTCATACAAATTTCCATGTTGGCA
ACTGTAGCTGGATCTTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCTGAGGCGTGAGGCAT
CCAGAGCATTATCTGCCAACCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG
CAAAGAGAATTGCCTCCTGGAGCCAGAGGCCGGTTCTGTGCTTAGAAAGGAAGGACATGTCTTCTGTGCTCCCT
GTCTCACAAGGCCTCTTCAGCAGGCATGGGACCTCATTCTCAAGTTCAAGGAACCTGTGGAACCTGTCTCTTG
TCCTCCAGAGAGAATCCTCTCCGCCTTAGAGGTCCCTCCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA
ATGTCTTCTGTCCCCTTCCCTGCCCCAATTCCACTTCTCTATGCCAGCCTCTGTGGCCAGTACCATTTGGGGTT
CTGTGGGCAGCTGGGTCCGTGGTGGTGGGGACCGTGGGAAGGGGCCATCTGTGCGGATCTTAGATGGAGCATCCA
GAAGCCCCACCCCTTCATACTGGCCAGAGTGGCCCTGCCAGCGCCTCTCTGGAGTGTCAATTAAGCTGAAAGTGT
TGCCTTACCTCTGCAGTAGGATGCATTACTGAAGTGGCCTCTTGGTCACCTAGCTCTGAATTTTCTGGCTCCAG
AAAGAGGCTGTGGGGCACAGGTCCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGGCCAGGCACAGG
AGGACAACCTAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC
TTCCAAGACTGAAGACTTCCCAAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA
GGCTTCTTAGGAATCCTACCCAGACATTAAAAATAGACTCTTGGTGCTGGCAGGTGGCTGGAATCTGCGTTTGT
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGCATTGGGGGAACACCCGGGGCTGGGGCCTGAGTC
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATTCCTCCCTGCCTTCCATCCAGACAGGCCCAAAGATGCAAGAG
GCGTTGATCAGCCATCTCCATCCATGCCTGTTGCCCTCAGAGAGGGCCGACGGCTTTTAAAATGCTGTTGCCATA
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGTGGGATGGAACCTGACTTG
TGAGAGACCACAGCTACTGTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGCGGGGAG
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC
ATCCCCTGGGGAAGAAGGGAATGCAGAAATGAAATGTCATAATGAGTAACAATGTATAAAAATATCGAATAATAA
CAGCT

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FIGURE 5767

MIKCLSLDLCTVDKKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCCLVASENGIAPVPWTKITSPEFVDDRPQVV
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPAQSLAKGKGRTYGSKYPGLIKVEQARCEVAFRMDEVVSQ
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIIAGTKETPLFQKILPLSEANEGPSLGNRACTKPESSE
ERPYNLGFRRKVNKLKAPTHNSERPPQGSYMNVEDALDCASGLRAGVSQEPAASKMQGPLGNPENMVQLRPGPRQ
ASSPRLSPASPAAAASETKIEVKTKERNRGLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL
GVKVFRRSRIACLPGGDRDRAGRPLLLVSTTEGAWEAPWCTVSEVTLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLDPVQVEVLTSLKALSHHVDPSQLPAVLEGPFPPYCHTEWV
HFFQKLDPFLLADLHQASSLLQASIEFEKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLOREGGATLARLQH
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT
PKDGSLETVEKAHAEEFENFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAEPPELAFASTQRAFAQELTHF
YMAAERQRTDLETLHLHRFCKRMTWFMDCQDLMAQLRLDKTSRVSPGDQRRHLRYLQRLASEFPPEKLAAGL
QVASLSRAGLGQELWEEARIRHEEIRMLLEKALTHSSCPEAPAAHSARPERRGVAAGQGVSEVTSGKRWDPFP
LDSLGMHDLPKSYWPPGPPRGEQNRFTQAGSPPEAGQAAEAEDGKGSHKLPDPAREHLLATTFRQPPRQSQV
PRLTGGSFSSEGTDSQTSLEDSPTSPLASL

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FIGURE 5768

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG
CGTCCCTGATGGTGCTGGTCGCCATAGGCACCGCCGTGACAGCGGCCGTCAACCCTGGCGTCGTGGTCAGGATCT
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATTCT
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG
AATTCCAGCTTCCCAGTTCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGCAATTTGACCTGAGCATAGAAG
GCATGTCCATTTGCGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTCTCCACA
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTACAGTGAGAACCACCACA
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG
ACTACTTCTTCAACACAGCCGGGCTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCTTAGAGATGACATGA
TTCCAAAGGAGTCCAAATTTGACTGACAACCAAGTTCTTTGGAACCTTCCTACCTGAGGTGGCCAAGAAGTTTC
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT
TCTACCCTGCCGTGGATGTCCAGGCCTTTGCCGTCTCCCAACTCCTCCCTGGCTTCCCTCTTCTGTATTGGCA
GCACACAACCTGGTTCCATGGAGGTCAGCGCCGAGTCCAACAGGCTTGTGGAGAGCTCAAGCTGGATAGGCTGCT
CCTGGAACCTGAAGCACTCAAATATTGGCCCTTCCCGGTTGAATTGCTGCAGGATATCATGAACCTACATGTACC
CATTCTTGTGCTGCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGGCCAGAGTCCAGCT
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCTGCTGTTTCGGTGCAGACGTTGTCTATAAATGAAGGCACCA
GGGGTGCCGGGGGCTGTGAGCCACACCTGTTCTGTATGGGCTGTGGGGCACCGGCTGCCTTTCCCCAGGGAATCC
TCTCCAGATCTTAACCAAGAGCCCTTGCAAACCTTCTCGACTCAGATTCAGAAATGATCTAAACACGAGGAAAC
ATTATTCAATTGGAAGAGTGATGGTGTGATTTTAGGGATTATGAGCTTCTTTCAAGGGCTAAGGCTGCAGAGAT
ATTCCTCCAGGAATCGTGTTTCAATTGTAACCAAGAAATTTCCATTTGTGCTTCATGAAAAAAACTTCTGGTT
TTTTTCATGTG

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FIGURE 5769

GCGCTCCAAGATGGCGGCGAACGTGTTCCCGTTCGCGACGCCCGTGCCGCACCGGACCCAGTGTCTGGAGGCCGG
CCCGGTGGCACACGGGCCACTGCCGGTACCGCTGGTGCTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC
GTGTCCCGGGCAGGACCCAGGTCCCGAGCCGCGCCTGCAGTTCCGCGCGGTGTGCGCCCGGGTCTGTGGCGGGGC
ACGGGGCGCGTCGGGCCCCGAGGTGGGGAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCCAGCACCTGGGTGT
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT
GATGTCTGAGCTTCTTTTTGAGTGCTACGGGATTTCCCAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA
CCACAATAAGCCAAAGAAGTCCGATGTGCAGTGGGTAATCATTTTCATCTGGATACCAAGTGTACGCATGTTTTACC
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCT
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGTCCTGATTATTATGAGAATAA
TGTCACAAGATGCAGCTCCATTTTCCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG
GCGGCAGCAGCAATTGCGGCGGCTGCAGGAGCTCAATGCCCCGCGCGGGAGGAGAAGCTGCAGCTGGATCAGGA
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTCTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT
AGAGCTGAATATGGAATCCCCAGAAGAGCTGCAGTCTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA
GCAGAAAATCCTCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
GCAGCTGGAGCCGTCTTTGGAAGATGTGGAAGCATGAATGATTTTGATCCCTTGTTTTAGAGGAAACACCTGG
AGTGGAGAAGCCGGTCACCACTGTTTCAGCCCGTGTTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT
TCAGTACATTTCTGGACAGGTACCCAGAGGACATTTCAGGAAATGCTGGTTCAGAACGTTTTCTCTACTGGCGGCAA
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAAGTGTGGAGATGAGACCCCTCCGGTCTTCTTTTCA
GGTTCAACTTGCTCGAACCCTGTGCTGGATGCCTGGTACGGTGCTCGTGACTGGGCCTTGAACCACCTAGATGA
TAATGAAGTTTGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGTACCTCAAGGAGCACTGTGCTTCCAA
CATCTATGTCCCATCCGCCTGCCGAAGCAGGCCTCCCGCTCCTCAGATGCCCAGGCATCCAGCAAGGGCTCCGC
TGCTGGTGGAGGTGGTGCTGGTGAGCAGGCATAGCAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCTTG
GGCCACGTTGGCAGTGTGACAGGACTGTGATTGTGCTAGATGTACCTGCCCAAGTCTGCTGGTCACATTTGGCAG
CAAATGGATTTCTCCTGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAGAATTCGGTTCACTTGGG
GGCTTCTGTGGTAGAGACTAACTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAATGCACAAGACTGATTTCTTACCACATTTTAGT
CTTCTTGTTTT

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FIGURE 5770

MAANVFPPRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA
SGPQVGNALGSLEPLRWMLRSPFDRNPVNLELQELLLDYSFQHLGVSSQGCVDHPIVLTEAVCNPLYSRQMMSE
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLPILEGRDANKNCKRINLGGQAAGYLQRL
LQKYPGHLAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDYENNVMQLPFSSKLLGSTLTSEEKQERRQQ
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLEDDGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI
LQAEVNLEVDVVDSPETPDLEQLEPSLEDVESMNDPDLFSEETPGVEKPVTTVQPVFNLAAYHQLFVGTERIR
APEIIFQPSLIGEEQAGIAETLQYILDYRPEDIQEMLVQNVFLTGGNTMYPGMKARMEKELLEMRPFRSSFQVQL
ASNPVLDAWYGARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG
GGAGEQA

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FIGURE 5771A

GGGGTGCCGCCGCCGCCGTTGCGCTTGCTCCCGGGCGGTCTGGCCTGTGCCGCCGCCGCCCCAGCGTCGGAGC
CATGGCGGGCGCCGCGTCCCCCTTGCGCCAACGGCTGCGGGCCGCGCGCCCTCGGACGCCGAGGTGCTGCACCT
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGCAGCGACCCGAGCGGAAGAC
CTTCCAGGTCAAGCTGGAGACGCGCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG
GCCGGACCAGTCACATTGCTTTGTCATTCTCTATGGAATGGAATTTGCGCTGAAAACGCTGAGCCTGCAAGCCAC
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTTGCTGATGGAGGATACATTGCAGGCACCCACACC
CCTGCAGATTGAGAGGTGGCTCCGGAAGCAGTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA
GGACCTGAAGAACATGCTGTCCAGGTCAACTACCGGGTCCCCAACATGCGCTTCCTCCGAGAGCGGCTGACGGA
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGCTCAGCTGTACCGCAGCCTCATGTACAGCGCCCA
GAAGACGATGGACCTCCCCCTTCTTGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGTC
CCTTCTGAGTTCCAGCAGTTCTTCTTGACTACCAGGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA
GTTTCATGCTCAGCTTCTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCTGGATGAGTTTGTAC
CTTCTGTCTCCAAGAGAACAGTGTGTGGAACCTGCAGCTGGATGCAGTATGCCCGACACCATGAACAACCC
TCTTTCCCACTACTGGATCTCTCTCGCACAAACAGTACCTGACCGGGGACCAGTTCTCCAGTGAGTCTCTCT
GGAAGCCTATGCTCGCTGCCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACCGGCCGGATGGGAT
GCCAGTTATTTACCATGGGCACACCCCTTACCACCAAGATCAAGTTCTCAGATGTCTGCACACCATCAAGGAGCA
TGCCTTTGTGGCCTCAGAGTACCCAGTCATCTGTCCATTGAGGACCACTGCAGCATTGCCAGCAGAGAAACAT
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAAGCCCCGTGGAGATCTCTGCCAGCGGCTCCC
CTCACCAACAGCTTAAGAGGAAGATCCTCATCAAGCACAAAGCTGGCTGAGGGCAGTGCTTACGAGGAGGT
GCCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCCTCTACCTGGAGGACCC
TGTGAACCACGAATGGTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTACTCTGAGGAGACCAGCAG
TGACCAGGGCAACGAGGATGAGGAGGAGCCCAAGGAGGTGACGAGCAGCACAGAGCTGCACTCCAATGAGAAGTG
GTTCCATGGGAAGCTAGGGGCGAGGGCGTGACGGGCGTCACATCGCTGAGCGCCTGCTTACTGAGTACTGCATCGA
GACCGGAGCCCCCTGACGGCTCCTTCCTCGTGCGAGAGAGTGAGACCTTCGTGGGGCGACTACACGCTCTCTTTCTG
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCCAAGTTCTTCTTGACAGA
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCACGCACTACCAGCAGGTGCCCTGCGCTGTAATGAGTTTGA
GATGCGACTTTCAGAGCCTGTCCACAGACCAACGCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCTGGTGCGGAAGCGGAATGAACCCAA
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGAT
GCTAGGGAACCTCGGAGTTCGACAGCCTTGTTGACCTCATCAGCTACTATGAGAAACACCCGCTATACCGCAAGAT
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA
TGAGGGACGCAACCCCTGGCTTCTATGTAGAGGCAACCCCTATGCCAACTTTCAAGTGTGCAGTCAAAGCCCTCTT
TGACTACAAGGCCAGAGGGAGGACGAGCTGACCTTCATCAAGAGCGCCATCATCCAGAATGTGGAGAAGCAAGA
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT
CAACCCCGTGGCCCTGGAGCCGAGAGGGAGCACTTGGACGAGAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT
CTTGGATGTGCCGGCTTGTGAGATTGCCATCCGTCTGAGGGCAAGAACAACCGGCTCTTCGTCTTCTCCATCAG
CATGGCGTCGGTGGCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA
GATCCGTGAAGTGGCCAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC
CCTGGAGCTCTCTGAACTTGTGCTACTGCCGGCTGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC
TTGCTACCGGGACATGTATCCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTCTCAACTACGATCC
TTTGCCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTCCAGACCCCTGACAAGCCTATGCAGATGAA
CCAGGCCCTCTTCATGACGGGCAAGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA
CCCCCTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCGACATCT
GCCAAAGAATGGCCGAGGCATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACC
GCAGAAGACAGAGTTTGTGGTGGACAATGGACTCAACCCCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG
TAACCCCTGAATTTGCCTTTCTGCGCTTCGTGGTGATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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FIGURE 5771B

GGCTACTTTCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACACTACAGTGAGGACCT
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCGGGAAGGCTCCTTTGA
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCAGCCTCGTTGGAGAGCA
GCAGGTGCTGTGCGCCTTGTAGAATGCCGCGAACTGGGTTCTTTGGAAGCAGCCCCCTGTGGCGGCCTTCCGGGT
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAAATGAGATGTTATTACTGT
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAAACCTGTACTGTGTTTCGCATTAAAGCACACACATCTGGC
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCTTGGAGAGAGAGGCTG
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCTAAGAGTGGAGGAGGAGGAGCCTTGCT
GGGCCAGGGAACAAAGTTTACATTGTCTGTAGCTTTAAACACAGCTGGGCAGGG

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FIGURE 5772

MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPTP
LQIERWLRKQFYSVDRNREDRISAKDLKNMLSQVNYRVPNMRFRLRERLTDLEQRSGDITYGQFAQLYRSLMYSAQ
KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSFLRDPFLREIEEPYFFLDEFVT
FLFSKENSVMNSQLDAVCPDTMNNPLSHYWISSSHNTYLTGDOFSSESSLEAYARCLRMGCRCIELDCWDGPDGM
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP
SPNQLKRKILIKHKKLAEGSAYEEVPTSMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS
DQGNEDDEEPEKVSSTELHSNEKWFHGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDTLSFW
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDLSYDLITHYQQVPLRCNEFEMRLSEFPVQTNAHESKEWYHASLTR
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKM
KLRYPIINEEAEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE
GGWWRGDYGGKKQLWFPSNYVEEMVNPVALEPEREHLDENSP LGDLLRGVLDVPACQIAIRPEGKNNRLFVFSIS
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVFPFDEEKIGTERA
CYRDMSSFPETKAKEYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQ LVALNFQTPDKPMQMN
QALFMTGRHCGYVLQ PSTMRDEAFDPFDKSSLRGLEPCAISIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTK
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSQNF LAQATFPVKGLKTGYRAVPLKNNYSEDL
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGS DASGQLFHGRAREGSFESRYQQPFEDFRISQEHLDHFD SRE
RRAPRRTRVNGDNRL

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FIGURE 5773

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCCTTAAATTC
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAGTATCAAAGAAAAATAAGAT
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCCTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA
GGAATTTCTGAAAAACAAGGCCTTTTTCACATTACCAAGAACTCACAGCTACTCTGTGAATGCCCTAGATATTTG
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTTGGTACCCT
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTTGATTTTCAGACTAAGATTAAT
AAATGCTTTTAAATAAAGTAACTTTTAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCATTCTCAAACCTGCA
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACCTCCTACAAATTTGCAGTATTCAA
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAATTTACAAGTATGATCTAACCAATT
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTAACTGGCAACTGACTTTACTGAGAT
TAAGTGCCTGTTAAACATAATGATCTTTTCAGCAGAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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FIGURE 5774

GCTGACGCCTTCGAGCGCGGCCCGGGGCCCGGAGCGCGCGGAGCAGCCCGGGTCCTGACCCCGGCCCGGGCTCCCG
CTCCGGGCTCTGCCGGCGGGCGGGCGAGCGCGCGCGGTCCGGGCCGGGGGATGCTCTCGGCGGACGCGCTGCGA
GGATCTGGATGAGCTGCACTACCAGGACACAGATTGAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGGACAGCAGGACTGGAAGTTCTTGGC
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTCAA
GGGGCCATGGACCAAGAGGAAGACCAAAAAGTCATCGAGCTGGTTAAGAAGTATGGCACAAGCAGTGGACACT
GATTGCCAAGCACCTGAAGGGCCGGCTGGGGAAGCAGTGCCGTGAACGCTGGCACAACCACCTCAACCCTGAGGT
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCACAAGGTGCTGGGCAACCGCTGGGC
CGAGATCGCCAAGATGTTGCCAGGAGGACAGACAATGCTGTGAAGAATCACTGGAACCTTACCATCAAAAGGAA
GGTGGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCAGTGTACTTGCTGCTGGAGCTCGAGGA
CAAGGACGGCCTCCAGAGTGCCACGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCCGTCCCTCC
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAACCTGCAGCAGCCACCACATCGAAGGAACAGGAGCCCATCGG
TACAGATCTGGACGAGTGCGAACACCAGAGCCCTTGAGGAATTCCCGAAGCGTGAGGACCAGGAAGGTCCCC
ACCAGAAACGAGCCTGCCTTACAAGTGGGTGGTGGAGGCAGCTAACCTCTCATCCCCGCTGTGGGTTCTAGCCT
CTCTGAAGCCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCACATCAGCAGCAAGTCTGCCACC
CCGCCAGCCTTCCGCCCTGGTGCCAGTGTCACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG
GAGCAGCCGGGGCGAGCTGATCCCATCTCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCCTGTCACTGAGAATAGCACCAGTCTGTCTTCTCT
GGATTCTGTAAACAGCCTCACGCCAAGAGCACACCTGTTAAGACCCTGCCCTTCTCGCCCTCCAGTTTCTGAA
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT
GGTGGTCACCACACCACTGCACCGGGACAAGACACCCTGCACCAGAAACATGCTGCGTTTGTAAACCCAGATCA
GAAGTACTCCATGGACAACACTCCCCACACGCCAACCCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA
GCCCTTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAACTCAT
CATCGAGGACGACATCAGGCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATCCTT
GCCGACAACCTGCCCCTTCAAACCTTCCAGCCTCACCCCTGTGAGGTATCAAAGAAGACAACAGCTTGCTCAACCA
GGGCTTCTTGAGGCCAAGCCCGAGAAGGCAGAGTGGCCCAGAAGCCCCGAAGCCACTTCACGACACCTGCCCC
TATGTCCAGTGCCCTGGAAGACGGTGGCCTGCGGGGGGACCAGGGACCAGCTTTTTCATGCAGGAGAAAGCCCGCA
GCTCCTGGGCGCCTGAAGCCCAGCCACACATCTCGGACCCTCATCTTGTCCCTGAGGTGTTGAGGGTGTACAGAG
CCCATTTCTCATGTTTACAGGGGTGTGGGGGACAGAGGGGTCTGTGAATCTGAGAGTCATTGAGGTGACCTCCTG
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC
GAGCCCAGCTGTGGCGGGCTCCTGGTGCTAACAACAAAGTTCCACTTCCAGGTCTGCCCTGGTTCCCTCCCAAGG
CCACAGGGAGCTCCGTGAGCTTCTCCCAAGCCACGTCAGGCCTGGCCTCATCTCAGACCCTGCTTAGGATGGGG
GATGTGGCCAGGGGTGCTCCTGTGCTCACCCCTCTCTTGGTGCATTTTTTTTGAAGAATAAAATTGCCTCTCTCTT
TG

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FIGURE 5775

MSRRTRCEDLDELHYQDTSVPEQRDSKCKVKWTHEEDEQLRALVRQFGQQDWKFLASHFPNRTDQQCQYRWLR
VLNPDVLKGPWTKEEDQKVIELVKKYGTKQWTLIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVDITGGFLSESKDCKPPVYLLLELEDKDGLQSAQPTGQGSLL
TNWPSVPPTIKEEENSEEEELAAATTSKEQEPIGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWVVEAANLL
IPAVGSSLSEALDLIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG
HTISDLSRSSRGELIPISPSTEVGSGIGTPPSVLKRQRKRRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLP
FSPSQFLNFWNKQDTLELESPLTSTPVCSQKVVTTPHLDKTPHQAFAFVTPDQKYSMDNTPHTPTPFKNA
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELIIEDDIRPEKQKRKPLRRSPIKKVRKSLALDIDEDVKLMMS
TLPKSLSLPTTAPSNSSSLTSLGIKEDNSLLNQGFQAKPEKAAVAQKPRSHFTTPAPMSSAWKTVACGGTRDQL
FMQEKARQLLGRKPSHTSRTLILS

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FIGURE 5776

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGAGGGAGCAGCG
CCGGGGCGCACGAGGGCACCATGGCCCCAGACGCCCGCCTTCGACAAGCCCCAAAGTGAACTGCATGTCCACCTAG
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGATCGCCCTCCCAGCTAACACAGCAG
AGGGGCTGCTGAACGTCATTGGCATGGACAAGCCGCTCACCCCTTCAGACTTCCTGGCCAAGTTTGACTIONTACA
TGCCTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTGTAGAGATGAAGGCCAAAGAGG
GCGTGGTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCCAAAGTGAGCCAATCCCCTGGAACC
AGGCTGAAGGGGACCTCACCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT
TCGGGGTCAAGGCCCGGTCCATCCTGTGCTGCATGCCACCAGCCCAACTGGTCCCCCAAGGTGGTGGAGCTGT
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGCTGGAGATGAGACCATCCCAGGAAGCAGCCTCT
TGCCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCTGG
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACCTTCGAGATCTGCCCTGGTCCAGCTACCTCA
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCCTCCCAGAAGATGAAAAGAGGGAGCTTC
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTACATTTATCCTTCCAAGAA
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCTATGTGTCCATTCTGCACACACGTATACCTCGG
CATGGCCGCGTCACTTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGACATGGGCATGGTTGAATCT
GAAACCCTCCTTCTGTGGCAACTTGTAAGTAAAATCTGGTGCTCAATAAAGAAGCCCATGGCTGGTGGCATGC

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FIGURE 5777

MAQTPAFDKPKVKLVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAIAGC
REAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKV EIPWNQAEGDLTPDEVVALVGQGLQEGERDFGVKARS
ILCCMRHQPNWSPKVVELCKYQQQTVVAIDLAGDETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGS AEVVK
EAVDILKTERLGHGYHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNDAQANYSINTDDPLIF
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLD LLYKAYGMPPSASAGQNL

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FIGURE 5778

GTTCGCTGTTGGGCGGAGATATTGCGCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT
GCAGGCGCAAGGTTCTTCAGACCCAGAAGAAGAAAGTGTCTCTACTCCAACCGAGCAGCATGTCACTTGAAGGA
TGGAAGTGCAGAGACTGCATCAAAGATTGCACCTCAGCACTGGCCTTGTTCCCTTCAGCATTAAAGCCCCTGCT
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT
TGATGATAATGTGACGTCAGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA
GTGGCGCCTGAAGCTGCCCTCAATCCCCTTGGTGCTGTTTCAGCTCAGAAGAGGTGGAATTCCTTGCCTTCGGA
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCTTCTGCTGGGGA
TGTGGAGAAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTGTAAAGAAGGGAAACCATAAGAAAGCTATTGA
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAGAAGCTGAAGGCATT
CTACAGACGGGCTCAAGCC@ACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA
GATTGAGCCTAGGAATGGTCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCCGCTCCTGAAACCCA
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCCACCCTGTAAGAGGCTTTGCTTG
TTCAAATTAAGTCACTGTAGTCAAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG
AAGCTGAAGCTCTGTCCCTATTCCCCCAGCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATT
GGCTTTGTCCTGCCCAAGTGGGCTGCAGACTGAGTGCTGCCCTGTAGCTTCCCAGACCCCAACTCACTGCAGT
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGCTCTTGCAC
AGTCTCCTATGTCTGAGCCCCAGTGCCTTCTGTTGCGGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCTTGA
ATGGTTGTCCTTGACTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCAGTGATTGTG
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGCCCTCCTTGGTCAGTGTCATGCTTTCTGGGCAGGGACTTGG
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTGAATTGACTG
ATTTTGTGAACTGTGTGTTTAAAGCTGTTGCATTAATAAAGCTTCTTCTACATCAATATCTGCTGTGCTTTTCATT
TATGCCTTTTCAGCTTTGCACCTGGAACCTCTGTAGTAATAATAAAGTTATTGCTTATTGGGCATTC

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FIGURE 5779

CAATACAGCTAAGGAATTATCCCTTGTAATACCACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCATGAGGGCCAGCAGCTTCTTGATCGTGGTGG
TGTTCCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACACTGTCA
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCAT
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCTCCCATTCAGGATGCCCACGGCTG
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

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FIGURE 5780

MRASSFLIVVFLIAGTLVLEAAVTGVPVKGQDTVKGRVPFNGQDPVKGQVSVKGQDKVKAQEPVKGPVSTKPGS
CPIILIRCAMLNPPNRCLKDTCFGIKKCEGSCGMACFVPQ

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FIGURE 5781

CAGAGTCACTCCTGCCTTCACCAATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAAGTCT
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTG
CCTTAGATAACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCTGACACTTG
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCAACAAGGAGGAAGCCTGGGAAGTGCCCAGTGACTTA
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTTG
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTCCTGCCATATGGAGGAGGCTCTGGAGT
CCTGCTCTGTGTGGTCCAGGTCCTTTCCACCCTGAGACTTGGCTCCACCCTGATATCCTTCTTTGGGGAAAGGC
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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FIGURE 5782

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPFKKSAQCLRYKKPECQSDWQCFGKKRCCPDTCGIKCLDP
VDTPNPTRRKPGKCPVTYGGCLMLNPPNFCMDGQCKRDLKCCMGKSCVSPVKA

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FIGURE 5783

GCGGCTATGCCGCTCTGGCTCTGCTCGTCTGTGCTCCTGGGGCCCGGCGGCTGGTGCCTTGCAGAACCCCCACG
CGACACCTGCGGGAGGAACTTGTTCATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCGCGACG
CGCTGGGATTGCGAGCTTCAGCGGGAAGGAGTGTCCATTACAGGCTCTTTCCCAAAGCCCTGGGGCAGCTGATC
TCCAAGTATTCTCTACGGGAGCTGCACCTGTCAATTCACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC
TTCTGTCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAATCTTGG
AAGGAGCTCAGTAATGTCCTCTCAGGGATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT
CCCCTGCTCTCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTTTGCCCTGTAGTTCCAAGGCAGGCCTCTCT
GTGCTGTGAAGGCAGATCGCTTGTTCACACCAGCTACCACTCCAGGCAGTGCATATCCGCCCTGTTTGCAGA
AATGCACGCTGTACTAGCATCTCCTGGGAGCTGAGGCAGACCCCTGTCAGTTGTATTTGATGCCTTCATCAGGGG
CAGGGAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCGAACCCCTCACGGAGCCCTGCCCTTGCTTCAGAG
AGCCGAGTCTATGTGGACATCACCACTACAACAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACT
ACATATCAGGACGTCACTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC
AACTCTCGAAACCTCAACATCCAGCTCAAGTGAAGAGACCCCAAGAGAATGAGGCCCCCAGTGCCCTTCTCTG
CATGCCCAGCGGTACGTGAGTGGCTATGGGTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA
TACCGGGCTTCCCGGTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCTCACCATC
ACCTCCAAGGGCAAGGAGAACAAACCAAGTTACATCCACTACCAGCTGCCAGGACCGGCTGCAACCCACCTC
CTGGAGATGCTGATTACAGTGCCTGGCAACTCAGTCACCAAGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG
TGGACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTACAGCCATCTGTCTCAGCGCCCTTGTGCCCAGC
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTTCCAGTCTCTGATGGCTCT
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC
ATCGAGGAGCCCCGACAGGTGGCCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA
CTCTGATTCTTGGCCCTTTCCAGCAGCTGCAGCTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTGAGGGCTACAGCTGTGTTGTCCA
GTACAGGAGCCACGAGCCAAATGTGGCATTGGAATTTGAATTAACCTAGAAATTCATTTCTCACCTGTAGTGGC
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTGGTGGCTGCTGTATTGGACAGCACAGAAAAAGATTTT
CATCACACAGAAAGGTGGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA
GTGGATGGAGTTTACTGTTTGTGGAATAAAAAACGGCTGTTTCCGTGCAACACAAAAA

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FIGURE 5784

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPKALGQLISK
YSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTVTDVDKSWKELSNVLSGIFCASLNFIDSTNTVTPT
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCRNA
RCTSISWELRQTLVVFDAFITGQKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPEAEAPPVFFLHAQRYVSGYGLOKGEISTLLYNTHPYR
AFPVLLLDTPWPYLRLYVHTLTITSKGKENKPSYIHYQPAQDRLOPHLLEMLIQLPANSVTKVSIQFERALLKWT
EYTPDPNHGFFVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDFSMYPYVI
CLTCTVAVCYGSFYNNLLTRTFHIEEPTGGGLAKRLANLIRRARGVPPL

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FIGURE 5785

GGCACGAGCGAGTTCCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAACCGCGACCCAGCCGCCACTAG
CGTCGCCGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGGTCCGGTGGGCAAAAGGCTACAGCA
GGAGCTGATGACCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAAATG
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCCCAG
TGGCTACCCTTACAATGCGCCACAGTGAAGTTCCTCAGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA
CATATGCCTGGACATCCTGAAGGAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTACCAGCCAGGAGCCCTTGACCCAGGCTGCCAGCCTGTC
CTTGTCGTCTTTTTAATTTTCCCTAGATGGTCTGTCCTTTTTGTGATTCTGTATAGGACTCTTTATCTTGA
GCTGTGGTATTTTTGTTTTGTTTTGTCTTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT
TTTTGTCCTTTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5786

MASQNRDPAATSVAAARKGAEPSSGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE
DLRYKLSLEFPSPGYPNAPTVMFLTPCYHPNVDTOGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNT
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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FIGURE 5787

GAACCCGGCCGACCTCCATGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGCGCGCCCTGAATGCACC
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCGGCTGCGGCACGCCTTGCCCGGCGACGGCCCCG
GGGAGGCGGGCGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC
TGTCCTCCCGACTCAGCGGCACCCCTCAGCTTCACCAGCGCCGAGGACGACGAGGACGACGAGGACGAGGACGACG
AGGAGGCTGGCCCTGACCAGCTGCCCCCTCGGGGATGGGACGTGAGGAGAAGACGCAGAACGGAGCCCCCACCTG
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC
CCCAGCGGCTGCTCTTGAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC
TCGCCGTGATCGGCCAGGACCGCCAGATTGCCAGCCAGCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC
TGCACCGAAACCTGCAGCGGCAATTCCGGGGCCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGGA
ATTTTACTGCAGAGACCATTGCCCGCCGTAGCCGGGCTTTGAGCAGTTTTTGGGTACCTGCAGGCAGTGCCTG
AGCTGCGCCATGCCCCGGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCTCTG
GCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCTGGAGAGGCCC
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCTTTGCTGGCACCCCTTTCTGGAGG
CCCATGTCCGGCTCTCCTGGCGCCTGGGCCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG
CAGGCCTTACCCCCACACCACCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTTAACCTTGCCTA
GATTTAAGGCCACTGTGAGGAGAGGGGTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG
AGGCTGCAGAGGGTGTGAGGAGCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAACTTCTGTGA
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAAGTCTGACACAGCCTCTCCAGCCT
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTGGTGGGCCCCCAAGCTGGCAAGGCCT
CTTGGCTGAAGGCCAGGACTCTGCCCTGGAGTCTGGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGCCCC
AGGGGAATTAAAGCCAGCCACTCC

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FIGURE 5788

MHRGTQEGAMASRLRHRLRHLAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDEDE
DDEEAGPDQLPLGDGTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLEVTSANVVKDPPSKYVL
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMAAISFPRKRLRRNFTAETIARRSRAFEQFLGHLQA
VPELRHAPDLQDFFVLPELRRASLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTPPPSLKELLIKEVLD

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FIGURE 5789

GTGGCCGCGTCGCCCCGGATCCCCTGAGCTGCCCCGCCATCCCACGTGACCGCGCGCCCCCAGCTCCACCGCTG
AGCCCCGCTCGCCATGGCCCTCTTCGGGGCCCTCTTCCTAGCGCTGCTGGCAGGCGCACATGCAGAGTCCCAGGC
TGCAAGATCCGCGTCACCTCCAAGGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTCTGGAGCAAGAGCTG
GAGACTATCACCATTCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTACA
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTCAAATCACCAATGCCTCC
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCCGGATCCCCTGGACGGATGAAAGTGTCCAATGCTCTCCTGC
CAGGCCTCTGTCTCCAGAAATGCACGCGGCCCTTCGGGGGAACCTCAAGAAGGTGTATGATTTCTCTCCACGTTT
ATCACCTCAGGGATGCGCTTCCTCCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCTCTGCTC
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTGGCATTGACTATTCCCTCATGAAG
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGAATTCGGGGGGCCCTTCTTCCCCCTGACTGAGAGGAACTGG
AGCCTCCCCAACCGGGCAGTGGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTC
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGGACAAGGTGCCC
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCTGCTGAGCCCAGCAGTGATTGACTCC
CCATTGAAGCTGGAGCTGCGGGTCTTGGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCACGCAGCTGGACCTGCGCAGGTTCCGAATCTAT
TCCAACCATCTGCACTGGAGTCGCTGGCTCTGATCCCATACAGGCCCTCTGAAGACCATGCTGCAGATTGGG
GTGATGCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGCAGATCCCACTACCTGAGGGCATCAACTTTGTGCAT
GAGGTGGTGACGAACCATGCGGGATTCTCACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG
ATTGAGAAGAACCGGCCTGCTGATGTGAGGGCGTCCACTGCCCCACACCGTCCACAGCAGCTGTCTGAGCCCTC
AATCCCCAAGCTGGCAGCTGTATTAGGACCCCAACCCCTCTCAGCCCCTCTTTCCACATTTCATAGCCTGTA
GTGCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATTCCATAATCAATC
TATCAATTACAGTCCGTCCACCACC

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FIGURE 5790

MALFGALFLALLAGAHAEFFPGCKIRVTSKALELVKQEGRLFLEQELETITIPDLRGKEGHFYNNISEVKVTELQL
TSSELDQFQQELMLQITNASLGLRFRRQLLYWFFYDGGYINASAEGVSIRTGLELSRDPAGRMKVSINVSCQASV
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICPVLYHAGTVLLNSLLDTVPVRSSVDELVGIDYSLMKDPVA
STSNLDMDFRGAFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFDAMESYFRAGALQLLLVGDKVPDLD
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLQAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT
NHAGFLTIGADLHFAKGLREVIEKNRPADVRASTAPTPTAAV

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FIGURE 5791

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCAGACAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAACTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTGCGGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCTCTCC
TGGCCCCGGCATTACAGGAGACGCCCATTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCTTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCTGCCAGTTTCCATTCTCTT
CCAAGGCCAATCTTACTCCGCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCCGACCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCTTCACTTTCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCCTCTGGTGCCTACCACTCGAAGTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG
TTTGTTCCTCGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCTTGCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCAACCACCACCACACCGCAGCCACGGCTCCCCCGACGGTCTGCCC
CACCAGACCCCCACTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCACTGTGCCCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGCAGGGGGAGCCGGCCGAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTGCGCGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTTACGCGGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCCTTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCTGCACTGCCCCTGAGGACTAGGGCTCCCGTCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTTGGCGGATACAACTGGTATTCTGTCTGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTCTCACCTTTGTTTTTTGTTGGAGTGTCTTAATAAACTTGGATTCT
CTAACCTTT